Access DB# 66194

#### SEARCH REQUEST FORM

#### Scientific and Technical Information Center

Requester's Full Name:  Art Unit:  Phone No.		Examiner # :	Date:	
Art Unit: Phone No	umber 30	Serial Number:		
Mail Box and Bldg/Room Location:	Res	ults Format Preferred (circle):	PAPER DISK	E-M
If more than one search is submi	tted, please prioriti	ze searches in order of ne	ed. *******	****
Please provide a detailed statement of the s Include the elected species or structures, ke utility of the invention. Define any terms to known. Please attach a copy of the cover sh	earch topic, and describe ywords, synonyms, acro hat may have a special n	e as specifically as possible the sub myms, and registry numbers, and c meaning. Give examples or relevar	ject matter to be se combine with the co	arched. oncept c
Title of Invention:				
Inventors (please provide full names):				
Earliest Priority Filing Date:				
*For Sequence Searches Only* Please includ appropriate serial number.	e all pertinent information	(parent, child, divisional, or issued p	oatent numbers) alor	ig with ti
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	Jan Dels	val		
	Reference L Biotechnology & Ch	iemicai ciora. j	4	Į,
•	Biotechnology & Cr CM1 1E07 - 70: jan.delaval@i	uspto.gov	,	
***********	Type of Search	**************************************	************** vhere applicable	****
Searcher:	NA Sequence (#)	STN		·
Searcher Phone #: 4498	AA Sequence (#)	Dialog		<u>÷</u>
Searcher Location:	Structure (#)	Questel/Orbit		
Date Searcher Picked Up: 2\8   63	Bibliographic	Dr.Link		
Date Completed: 214 3	Litigation	Lexis/Nexis	<del></del>	
Searcher Prep & Review Time:	Fulltext	Sequence Systems		
Clerical Prep Time: 30	Patent Family	WWW/Internet		
Online Time: + 90	Other	Other (specify)		
PTO-1590 (8-01)				

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Database
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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1 KQKIKHVVKLK

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H90486	T26930	S45337	JC5930	S47530	T01856	B71929	H64583	QXASRI	S14450	в64508	A97326	S07463	I64237	G69474	604400
alpha-glucosidase	hypothetical prote	serine protein ki	serine/arginine-r	chaperonin groEL	hypothetical prote	glutamine syntheta	glutamine syntheta	21S rRNA intron pi	probable transposa	hypothetical prote	excinuclease ABC,	dihydrokaempferol	hypothetical prote	conserved hypothet	IIIOUTTICACTON IIIECH

## ALIGNMENTS

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A;Note: authors translated the codon AGT for residue 377 as Thr and CTA for residue R;Hardwick, C.; Hoare, K.; Owens, R.; Hohn, H.P.; Hook, M.; Moore, D.; Cripps, V.; J. Cell Biol. 117, 1343-1350, 1992
A;Title: Molecular cloning of a novel hyaluronan receptor that mediates tumor cell A;Reference number: A41923; MUID:92299690; PMID:1376732
A;Accession: A41923
                                                                                     C;Superfamily: hyaluronan receptor C;Keywords: glycoprotein; receptor F;260-382/Region: 21 residue repeats F;516-574/Region: hyaluronan binding #status predicted F;575-625/Region: hyaluronan binding #status predicted F;116,283,304,325,346,367,398,438,619/Binding site: cau
                                                                                                                                                                                                                                               C;Genetics:
A;Gene: rhamm
                                                                                                                                                                                                                                                                                           A; Note: this sequence has been corrected in reference A42925 C; Comment: This protein regulates cell motility and transformation,
                                                                                                                                                                                                                                                                                                                                    A;Molecule type: mRNA
A;Residues: 155-376,'S',378-504,'E',506-507,'L',508-630 <HA2>
A;Cross-references: GB:X64550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Molecule type: mRNA
A;Residues: 155-376,'S',378-504,'E',506-631 <HAR>
A;Cross-references: GB:X64550
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A; Contents: erratum
A; Accession: A42925
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: mRNA
A; Residues: 1-631 <ENT>
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100.0%; ilarity 100.0%; Conservative 0
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                                         DB 2;
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C;Species: Now Sapiens (man)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 29-Sep C;Accession: JC5016
R;Wang, C; Entwistle, J; Hou, G.; Li, Q.; Turley, E.A.
Gene 174, 299-306, 1996
A;Title: The characterization of a human RHAMM cDNA: Conservation of t A;Reference number: JC5016; MUID:97045829; pMID:8890751
A;Contents: breast
A;Accession: JC5016
A;Molecule type: mRNA
A;Residues: 1-725 <WANN>
A;Cross-references: GB:U29343
A;Note: It is uncertain whether Met-1 or Met-196 is the initiator C;Comment: This receptor regulates focal adhesion turnover, and regulates conservation. Scalation. Scalation.
hypothetical protein SA2433 [imported] - Staphylococcus aureus (strain N315) C;Species: Staphylococcus aureus C;Species: Staphylococcus aureus C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 22-Oct-2001 C;Accession: H90071 R;Kurodb M; Ohta, T.; Uchlyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cui, L.; ma, A.; Mizutani-Ui, Y.; Kobayashi, N.; Sawano, T.; Inoue, R.; Kaito, C.; Sekimizu, C.; Shiba, T.; Hattori, M.; Ogasawara, N.; Hayashi, H.; Hiramatsu, K. Lancet 357, 1225-1240, 2001
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A; Note: T30N20_260
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A; Residues: 1-148 <BEV>
A; Cross-references: EMB
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A; Accession: T50808
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C;SpecLes: Homo sapiens (man)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change
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C; Superfamily: )
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se: cultivar Columbia;
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nce Database,
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3; Mismatches
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hypothetical protein F8F6.230 - Arabidopsis thaliana C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #
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C; Superfamily: yeast DNA-directed
C; Keywords: nucleomorph
                                                 A; Note:
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A; Introns: 100/3
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A; Residues: 1-1495 <BEV>
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A;Accession: T48429
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R;Bevan, M.; Peters
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A; Residues: 1-624 <KUR>
A; Cross-references: GB:BA000018; PID:g13702598;
A; Cross-references: Strain N315
                                                                                                           A; Experimental source:
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C;Genetics:
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R; Douglas, S.; Zauner, S.;
Nature 410, 1091-1096, 2001
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 Score
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37;
No.
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                                                                                                             BAC
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66;
DB 2;
1.6e+02;
                                                                                                                                                                                                                            March
                                                                                                                                                                                                                        Dirkse, W.;
March 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 2;
1.6e+02;
                                                                                                             clone
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              Length 1495;
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                                                                                                                                                                                                                                       W.; Bancroft,
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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C; Genetics:
A; Gene: VC1678
A; Map position:
                                                                                                                                                                                                                                                                                      Science 294, 849-852, 2001
A; Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; ok, C.; Schlueter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; A; Title: Comparative genomics of Listeria species.
A; Reference number: AB1077; MUID:21537279; PMID:11679669
A; Accession: AB1112
A; Status: preliminary
A; Status: preliminary
A; Residues: 1-623 <GLA>
A; Residues: 1-623 <GLA>
A; Cross-references: GB:NC_003210; PIDN:CAD00824.1; PID:g16409662; GSPI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C;Species: Listeria monocytogenes
C;Date: 27-Nov-2001 #sequence_revision 27-Nov-2001
C;Accession: ABIL12
R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend,
Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; I
                                                                                                                        Qy
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C;Genetics:
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A;Molecule type: DNA
A;Residues: 1-222 <HEI>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;Heidelberg, J.F.; Eisen, J.A.; Nelson, W.C.; Clayton, R.A.; Gwinn, M.L.; Chardson, D.; Ermolaeva, M.D.; Vamathevan, J.; Bass, S.; Qin, H.; Dragoi, Il, R.R.; McKalanos, J.J.; Venter, J.C.; Fraser, C.M.
Nature 406, 477-483, 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 02-Feb-2001 C;Accession: H82169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          phage shock protein A VC1678 [imported] - Vibrio cholerae (strain N16961 serogroup 01)
C; Species: Vibrio cholerae
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                   AF1473
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transcription antiterminator (BglG
                                                                                                                                                                                                                                       A; Gene:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Experimental source: serogroup
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                                    RESULT 9
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                                                                                                                                                                               Query Match
Best Local
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6; Conser
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66.7%;
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Pred.
3; Mis
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Pred. No. le+(
3; Mismatches
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family) homolog lin0325 [imported]
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le+02;
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Dussurget, O.;
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El Tor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             F.; Berche, P.; Entian, K.D.;
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Voss, H.; We
Listeria innocua
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Fsihi, H.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Map
A;Cross-references: EMBL:AL162874
A;Experimental source: cultivar Columbia;
                                                                                       A; Reference number: Z24489
A; Accession: T48260
                                                                                                                                                                             hypothetical protein T1E22.150 - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 20-Apr-2000
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                                  A; Molecule type: DNA
A; Residues: 1-835 <BEV>
                                                                    A; Status: preliminary
                                                                                                                          submitted to the Protein
                                                                                                                                           R; Bevan, M.; Hilbert, H.; Braun, M.; Holzer,
                                                                                                                                                              C; Accession:
                                                                                                                                                                                                                                         T48260
                                                                                                                                                                                                                                                        RESULT 11
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T48260

Sequence Database,

March

2000

E.; Brandt,

A.; Duesterhoeft, A.;

Bancro

BAC

clone

T1E22

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A;Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; ok, C.; Schlueter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; A;Title: Comparative genomics of Listeria species.
A;Reference number: AB1077; MUID:21537279; PMID:11679669
A;Accession: AF1473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C; Species: Listeria
C; Date: 27-Nov-2001
C; Accession: AF1473
                                                                                                                                                       A;Cross-references:
A;Map position: 13R
                                                                                                                                                                                                                                               A; Molecule type: DNA
A; Residues: 1-785 <LYE>
A; Cross-references: EMB
                                                                                                                                                                                                                                                                                                         A; Reference number: S54014
A; Accession: S54016
                                                                                                                                                                                                                                                                                                                                                                                                     N;Alternate names: protein YM9711.03c;
C;Species: Saccharomyces cerevisiae
C;Date: 08-Jul-1995 #sequence_revision
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: GB:AL592022; PIDN:CAC95558.1; A;Experimental source: strain Clip11262
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A; Residues: 1-623 <GLA>
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                                                                                                                                                                                       A; Gene: SGD: SOK2
                                                                                                                                                                                                                               A; Experimental source: strain
                                                                                                                                                                                                                                                                                                                                                 submitted to the EMBL Data
                                                                                                                                                                                                                                                                                                                                                                                   C; Accession:
                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOK2 protein - yeast (Saccharomyces cerevisiae)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Gene: lin0325
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               :Species: Listeria innocua
;Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change
                                                                           Matches
                                                                                                             Query Match
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Best Local (
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469 EKIRHVVKI 477
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                                                                           Local Similarity
nes 6; Conser
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                                     2 QKIKHVVKL 10
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Pred. No. 1e+0
3; Mismatches
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                                                                                           Score 36; DB 2;
Pred. No. 1.3e+0
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Durand, L.; Dussurget, O.; En
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le+02;
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                                                                                                             Length 785;
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tian, K.D.; Fsihi,
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Wehla
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RESULT 14
B89836
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C:Species: Xenopus laevis (African clawed frog)
C:Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 02-Jun-2000
C:Accession: T30335
R:Boleti, H.; Karsenti, E.; Vernos, I.
Cell 84, 49-59, 1996
A;Title: Xklp2, a new Xenopus centrosomal kinesin-like protein required for A;Reference number: 220827; MUID:96140639; PMID:8548825
A;Rocession: T30335
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Rossi-references: EMBL:X94082; NID:g1129172; PID:e213754; PIDN:CAA63826.1
                                                                                                                                                                                                                                                        A; Nolecule type: DNA
A; Residues: 1-117 <STO>
A; Cross-references: GB:AE005176; PID:g12722976;
A; Cross-references: Strain IL1403
                                                                       Вþ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           ribonuclease P (EC 3.1.26.5) [imported] - Lactococcus lactis subsp. lactis (strain C:Species: Lactococcus lactis subsp. lactis C:Species: Lactococcus lactis subsp. lactis C:Species: 23-Mar-2001 #sequence_revision 23-Mar-2001 #text_change 03-Aug-2001
                                                                                                                                                                                                                                                                                                                                                       A;Title: The complete genome sequence of the lactic acid bacterium Lactococcus lactis A;Reference number: A86625; MUID:21235186; PMID:11337471 A;Accession: H86640
                                                                                                                                                                                                                                                                                                                                                                                                             R; Bolotin, A.; Wincker, P.; Mauger, S.; Jaillon, Genome Res. 11, 731-753, 2001
                                                                                                                                                                                                               C; Keywords: hydrolase
                                                                                                                                                                                                                                   A;Gene: rnpA
                                                                                                                                                                                                                                                                                                                                       A; Status: preliminary
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C;Superfamily: unassigned kinesin-related proteins; kinesin motor
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C;Genetics:
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A; Map position: 5
A; Introns: 53/1; 82/3;
A; Note: T1E22.150
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Search completed: February Job time: 15.2 secs

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2003, 10:43:24

Db Qq

171

KQLLKHSAKLK

181

1 KQKIKHVVKLK 11

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A;Note: the nucleotide sequence C;Genetics:
                                                                                                                                                 A; Molecule type: DNA
A; Residues: 1-237 <HIM>
A; Cross-references: EMBl
                                                                                                                                                                                                                                                       R;Himmelreich, R.; Hilbert, H.; Plagens, H.; Pirkl, E.; L
Nucletc Acids Res. 24, 4420-4449, 1996
A;Title: Complete sequence analysis of the genome of the
A;Reference number: S73327; MUID:97105885; PMID:8948633
                                                                                                                                                                                                                                                                                                                                           C:Species: Mycoplasma pneumoniae
A;Variety: ATCC 29342
C:Date: 27-Feb-1997 #sequence_revision 25-Apr-1997 #text_change 07-Dec-1999
C:Accession: S73504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 conserved hypothetical protein SA0612 [imported] - Staphylococcus aureus (strain N315 C:Species: Staphylococcus aureus C:Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 22-Oct-2001 C:Accession: B89836 R:Kuroda, M.; Ohta, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cui, L.; O ma, A.; Mizutani-Ui, Y.; Kobayashi, N.; Sawano, T.; Inoue, R.; Kaito, C.; Sekimizu, K C.; Shiba, T.; Hattori, M.; Ogasawara, N.; Hayashi, H.; Hiramatsu, K.
                                                                                        A; Genetic
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A; Residues: 1-168 <KUR>
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A; Title: Whole genome sequencing of meticillin-resistant A; Reference number: A89758; MUID:21311952; PMID:11418146
A; Accession: B89836
                                                                                                                                                                                                             A; Status: preliminary; nucleic acid sequence not shown; translation
                                                                                                                                                                                                                                                                                                                                                                                                                           degV protein homolog K05_orf237 - Mycoplasma pneumoniae (strain ATCC 29342)
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(c) 1993 - 2003
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RPC1_PLAFA
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MYM_METJA
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Y 343_MYCGE
DFRA_PETHY
RMS5_EMENI
GLNA_HELPJ
CHG0_PORGI
AGLU_SULSO
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Hyaluronan mediated motility receptor (Intracellular hyaluronic acid
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"Hyaluronan and the hyaluronan receptor RHAM
turnover and transient tyrosine kinase activ
J. Cell Biol. 126:575-588(1994).
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Gene 226:41-50(1999).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE OF 164-794 FROM N.A., AN STRAIN-BALB/c; TISSUE-Fibroblast;
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Mammalia; Eutheria; Rodentia;
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 AND SUBCELLULAR LOCATION
2; PubMed=9556628;
M.C., Zylka D., Turley S
receptor RHAMM regulates
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"Problems with RHAMM: a new link between
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J. Biol. Chem.
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Local 11;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EXTRACELLULAR-REGULATED KINASE (ERK) ACTIVITY.
SUBUNIT: SUBUNIT OF THE HARC COMPLEX.
SUBCELLULAR LOCATION: CELL SCHOOL AND CYTOPLASMIC.
ALTERNATIVE PRODUCTS: 2 ISOFORMS; RHAMM1V4 (SHOWN HERE) AND RHAMM1; ARE PRODUCED BY ALTERNATIVE SPLICING.
TISSUE SPECIFICITY: UBIQUITOUSLY EXPRESSED.
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-i- FUNCTION: PLAYS A GENERAL REGULATORY ROLE IN THE CYCLIC AMP-DEPENDENT PROTEIN KINASE-STIMULATED (PKA) SIGNAL TRANSDUCTION PATHWAY BY REGULATING THE EXPRESSION OF GENES IMPORTANT IN GROAND DEVELOPMENT. MAY INHIBIT THE SWITCH FROM UNICELLULAR TO AND DEVELOPMENT. MAY INHIBIT THE SWITCH FROM UNICELLULAR TO
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MEDLINE=96069395; PubMed=8524252;

Ward M.P., Gimeno C.J., Fink G.R., Garrett S.;

Ward M.P., Gimeno C.J., Fink G.R., Garrett S.;

"SOK2 may regulate cyclic AMP-dependent protein kinase-stimulated growth and pseudohyphal development by repressing transcription.";

mol. Cell. Biol. 15:6854-6863(1995).
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SOK2 OR YMR016C OR YM9711.03C
                                                                                                                                                                                            SEQUENCE
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the European Bioinformatics Institute.
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SIMILARITY: BELONGS TO THE EFG1/PHD1/STUA FAMILY.
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EKIRHVVKI
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                                            QKIKHVVKL
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Z49211;
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148
169
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(Rel. 34, Last seq
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                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAB35749.1;
CAA89117.1;
                                                                                                                                                                                                                                                                                                                                                             regulation;
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                                                                                                                                                                                            AA;
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35, Last annotation updat
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151
172
172
217
335
532
                                                                                                                                                                                            85643 MW;
                                                                                                                       66.7%;
66.7%;
                                                                                                                                                                                                                                                                                                                                                                                   DNA_bind;
                                                                                                                                                                                                                                                                                                                                                                                                          Yeast_DNA_bind
                                                                                                                                                                                       Nuclear protein; DNA-binding.
POLY-GLN.
POLY-TYR.
POLY-TYR.
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POLY-GLN.
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                                                                                           Score 36; DB Pred. No. 40; 3; Mismatches
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RESULT 5
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STANDARD;

PRT;

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                                                                                                                                                                                                                                                                                                                                                                              RESULT
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Best Local S
Matches 6
                                                                                                                           Hypothetical protein MG450 homologger MP178.

Mycoplasma occurrence update)
                                                                                                                                                                                                                                                                                            Y450_MYCPN
P75127;
SEQUENCE FROM N.A. STRAIN-ATCC 29342 /
                                                                                                          Mycoplasma pneumoniae Bacteria; Firmicutes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Complete
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bloinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Ribonuclease P protein component (EC 3.1.26.5) (RNaseP protein) (RNase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR000100; Ribonuclease_P.
Pfam; PF00825; Ribonuclease_P; 1.
TIGREAMS; TIGR00188; rnpA; 1.
PROSITE; PS00648; RIBONUCLEASE_P; 1.
                                                                               NCBI_TaxID=2104;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; AE006251; AAK04226.1; -. HSSP; P25814; 1A6F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE~21235186; PubMed=11337471;
BOLOTIn A., Wincker P., Mauger S., Jaillon O.,
Weissenbach J., Ehrlich S.D., Sorokin A.;
"The complete genome sequence of the lactic ac.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN-IL1403
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bacteria; Firmicutes;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hydrolase; Nuclease; Endonuclease; tRNA processing; RNA-binding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lactococcus lactis
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CATALYTIC ACTIVITY: Endonucleolytic cleavage of RNA, removing 5'-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein subunit (By similarity).
SIMILARITY: BELONGS TO THE RNPA FAMILY.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                KKNLKHVLKL 107
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                h 64.8%;
Similarity 60.0%;
6; Conservative
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117 AA;
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                                                                                                                                                                                                                                                                                                                          STANDARD;
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es; Lactobacillales; Streptococcaceae;
     M129
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                                                                                                             Mollicutes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 35; DB
Pred. No. 9.5;
3; Mismatches
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                                                                                                          Mycoplasmataceae;
                                                                                                                                                                                    ion update)
(K05_orf237).
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Best Local
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Best Local :
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                                                                                                                                                                                                                                            rRNA gene of Fehrchard.";
other filamentous fungi.";
J. Biochem. 117:888-896(1995).
J. Biochem. 117:0888-896(1995).
-I- FUNCTION: ESSENTIAL FOR MITOCHONDRIAL PROTEIN SOLUTION: FOR MATURATION OF SMALL RIBOSOMAL
                                                                                                         use by non-profit institutions as long modified and this statement is not removed. entities requires a license agreement (See
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-FEB-1996 (Rel. 33, Created)
01-FEB-1996 (Rel. 33, Last seque
01-NOV-1997 (Rel. 35, Last annot
Mitochondrial ribosomal protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; AE000019; AAB95826.1; -.
InterPro; IPR003797; DegV.
Pfam; PF02645; DUF194; 1.
Hypothetical protein; Complete
SEQUENCE 237 AA; 26839 MW;
                                                                                               or send an email to license@isb-sib.ch).
                                                                                                                                                    the
                                                                                                                                                                                This
                                                                                                                                                                                                                                                                                                     Yamamoto H., Naruse A., Ohsaki T., Sekigue Nucleotide sequence and characterization "RNA gene of Penicillium urticae, and its
                                                                                                                                                                                                                                                                                                                                                                                                                   Eurotiales; Trichocomaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P47907;
01-FEB-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                      EMBL; D14567; BAA03421.1;
                                                                                                                                                                                                                                                                                                                                                 STRAIN-NRRL 2159A; MEDLINE-96070189; PubMed-759255;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Mitochondrion.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE-97105885; PubMed-8948633;
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                                                                                                                                                 s SWISS-PROT entry is copyright. It is produced through ween the Swiss Institute of Bioinformatics and the EN European Bioinformatics Institute. There are no resta
                                                                                                                                                                                                           SIMILARITY: BELONGS TO THE VARI FAMILY OF RIBOSOMAL PROTEINS
                                                                                                                                                                                                                         (BY SIMILARITY). SUBCELLULAR LOCATION: Mitochondrial
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7; Conser
                                                      protein;
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                                          AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                   Ascomycota; Pezizomycotina; Eurotiomycetes; ocomaceae; mitosporic Trichocomaceae; Penici
                            Mitochondrion.
Mitochondrion.
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Mitochondrion.
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54.5%;
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al protein S5.
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1E6D6F2BA5D1FDFC CRC64;
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No.
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and its comparison
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32;
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19;
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Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetales; mitosporic Saccharomycetales; Candida.
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01-NOV-1995 (Rel.
30-MAY-2000 (Rel.
                                                                                                                                                                                                                                                                                                                                                                    the European Bioinformatics Institute. The use by non-profit institutions as long modified and this statement is not removed.
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  Chloride
                                                                                                                                                                                                                                                                                                       InterPro; IPR003163; Yeast_DNA_bind.
Pfam; PF02292; Yeast_DNA_bind; 1.
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                                                                                                                                                                                                                                                                                                                                                or send
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         regulating morphogenetic processes in fungi."; EMBO J. 16:1982-1991(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Candida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Stoldt V.R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A. STRAIN=ATCC 10231;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EFG1 OR EFG
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SUBCELLULAR LOCATION: Nuclear (Potential).
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                                                                                                                                               Similarity
5; Conser
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p51799; p51799; O1-OCT-1996 (Rel. 34, Created)
O1-OCT-1996 (Rel. 34, Last sequence up
15-JUN-2002 (Rel. 41, Last annotation
Chloride channel protein 7 (ClC-7).
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Pfam; PF00654; voltage_CLC;
PRINTS; PR00762; CLCHANNEL.
SMART; SM00116; CBS; 2.
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EMBL; AF063098; AAC18832.1; JOINED.
EMBL; AF063099; AAC18832.1; JOINED.
EMBL; AF063100; AAC18832.1; JOINED.
EMBL; AF063100; AAC18832.1; JOINED.
MGD; MGI:1347048; Clcn7.
Interpro; IPR000164; CBs; domain.
Interpro; IPR0001807; C1-channel_volt.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
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Cell 104:205-215(2001)
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Friedrich W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
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SIMILARITY: CONTAINS 2 CBS DOMAINS.
                                                                                                                                                                                                                                                                                                                                                    domain;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                musculus (Mouse).
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                                                                                                                                                                                                                                                                                                                                                               channel;
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W., Delling G., Jentsch
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                                                                           THUMAN STANDARD PS1798; O9NYXS; P51798; O9NYXS; O1-OCT-1996 (Rel. 34, Created) f 16-OCT-2001 (Rel. 40, Last sequence update) T 15-JUN-2002 (Rel. 41, Last annotation update) f 15-Jun-2002 (Rel. 41, Last annotation update)
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CBS domain; Repeat.

TRANSMEM 175 195

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                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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InterPro; IPR001644; CBS_domain.
InterPro; IPR001807; C1-channel_volt.
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"C1C-6 and C1C-7 are two novel broadly expressed chloride channel family.";
FEBS Lett. 377:15-20(1995).
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
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Pfam; PF00654; voltage_CLC;
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Mammalia; Eutheria;
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SUBCELLULAR LOCATION: Integral membrane protein.
TISSUE SPECIFICITY: BRAIN, TESTIS, MUSCLE AND KIDNEY.
SIMILARITY: BELONGS TO THE CHLORIDE CHANNEL FAMILY.
SIMILARITY: CONTAINS 2 CBS DOMAINS.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Biochim.
[5]
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                                                                                                                                                    TRANSMEM TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; AF224741; AAF34711.1; -. EMBL; BC012737; AAH12737.1; -. EMBL; BC012743; CAA051556.1; -. EMBL; AJ001910; CAA05083.1; -. EMBL; U88844; AAB48530.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Entropean Bioinformatics Institute. There are no restructed by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use by non-profit institutions as long as its content use as long a
                                                                                                                                                                                                                                                                                                                                                                                                                                Pfam; PF00571; CBS; 2.
pfam; PF00654; voltage_CLC;
PRINTS; PR00762; CLCHANNEL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Schutte B.C., Malik M.I., Fingert J., Stone E., Lamb F.S.; Submitted (MAR-1997) to the EMBL/GenBank/DDBJ databases. Submitted (MAR-1997) to The EMBL/GenBank/DDBJ databases. 1- FUNCTION: VOLTAGE-GATED CHLORIDE CHANNEL. CHLORIDE CHANNELS SEVERAL FUNCTIONS INCLUDING THE REGULATION OF CELL VOLUME;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE OF 275-432 FROM N.A. MEDLINE-98234303; PubMed-9565675;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Brandt S., Jentsch T.J.;
"ClC-6 and ClC-7 are two novel broadly expressed members chloride channel family.";
                                                                                                                                                                                                                                               TRANSMEM
                                                                                                                                                                                                                                                                                  TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro; IPR000644; CBS_domain.
InterPro; IPR001807; C1-channel_volt.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MIM; 602727;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE OF 74
TISSUE-Breast;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           conserved
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE-Brain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE OF 17-805 FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Submitted
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TISSUE=Skin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eggermont J.;
"The exon-intron architecture of human chloride channel genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRANSPOITHELIAL TRANSPORT.
SUBCELLULAR LOCATION: Integral membrane protein.
TISSUE SPECIFICITY: BRAIN, TESTIS, MUSCLE AND KI
SIMILARITY: BELONGS TO THE CHLORIDE CHANNEL FAMI
SIMILARITY: CONTAINS 2 CBS DOMAINS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            J.L.;
n channels in lens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEMBRANE POTENTIAL STABILIZATION,
                                                                                                                                                                                                                                                                                                                                                                       channel; Ion transport;
                                                                                                                                                                                                                                                                                                                                                                                                    SM00116; CBS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HGNC:2025; CLCN7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                requires a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OF 744-805 FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Biophys.
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Repeat.
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                      1148
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CBS 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                          channel;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TRANSDUCTION
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                                                                                                                                                                                                                                                                                                                                                                          Transmembrane;
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MBL outstation -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CONFLICT
CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-JUN-1994
01-JUN-1994
16-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Arthropoda; Mandibulata; Pancrustacea; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscompha; Ephydroidea; Drosophilidae; Drosophila.
                                                                                                                                                                           PRINTS;
                                                                                                                                                                                                                                                                                                                                                                                            HSSP;
                                                                                                                                                                                                                                                                                                                                                                                                         PIR; A36014; A36014.
PIR; B36014; B36014.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            modified and this statement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced through a collab between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -i- ALTERNATIVE PRODUCTS: 2 ISOFORMS; A LONG FORM (SHOWN HERE) AND SHORT FORM; ARE PRODUCED BY ALTERNATIVE SPLICING.
-i- SIMILARITY: CONTAINS 1 MYOSIN-LIKE GLOBULAR HEAD DOMAIN.
-i- SIMILARITY: CONTAINS 1 IQ DOMAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MYSN_DROME Q99323;
                                      Myosin; Alternative splicing; Coiled coil; Actin-binding; ATP-binding; Calmodulin-binding.
                                                                                                                                                                                                                                                                              InterPro; IPR004009; Myosin_N.
InterPro; IPR002928; Myosin_tail.
InterPro; IPR001609; myosin_head.
                                                                                                                                                                                                                                                                                                                                               FlyBase; FBgn0005634; zip.
InterPro; IPR000048; IQ_region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=7227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Myosin heavy
                                                                                       PROSITE;
                                                                                                                                                                                                                                                                Pfam;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; M35012; AAA28713.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Drosophila melanogaster (Fruit fly)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    217 KIPHVVRLK 225
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                                                                                                                                           PF01576; Myosin_tail; 1.
PF02736; Myosin_N; 1.
S; PR00193; MYOSINHEAVY.
m; PD0000355; myosin_head;
                                                                                                                                                                                                                                       PF00063; myosin_head; PF00612; IQ; 1.
                                                                                                                                                                                                                                                                                                                                                                                          P10587; 1BR2
                                                                                                       SM00015; IQ; 1
SM00242; MYSc;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity 77.8
7; Conservative
                                                                                       PS50096; IQ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      267
279
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (Rel. 29, Created)
(Rel. 29, Last sequence update)
(Rel. 40, Last annotation update)
chain, non-muscle (Zipper protein)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AΑ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           267
279
88679
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77.8%;
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Pred. No.
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MYOSIN HEAD-LIKE IQ.
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-> L (IN REF. 3 )
E56BC0B4ADE1C695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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L (IN REF. 3 AND 4).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Usage
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01-AUG-1992 (Rel. 2
15-DEC-1998 (Rel. 2
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Li W.B., Baik D.J., Tanaka M., Gu H., Fox B.A., Inserburg J.,
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NP_BIND
DOMAIN
                                        Transferase; DNA-directed RNA polymerase; Transcription; Zinc-finger; Nuclear protein.
ZN_FING 88 101 C3H-TYPE (POTENTIAL).
SEQUENCE 2339 AA; 272829 MW; EDD899363086FD48 CRC64:
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InterPro; IPR002879; RNA_pol_A2;
Pfam; PF00623; RNA_pol_A; 1.
Pfam; PF01854; RNA_pol_A2; 2.
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Eukaryota; Alveolata; Apicomplexa;
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SIMILARITY: BELONGS TO THE RNA POLYMERASE BETA' CHAIN FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SUBCELLULAR LOCATION: Nuclear.
MISCELLANEOUS: THREE DISTINCT ZINC-CONTAINING RNA POLYMERASES FOUND IN EUKARYOTIC NUCLEI: POLYMERASE I FOR THE RIBOSOMAL RNI
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CATALYTIC ACTIVITY: N nucleoside triphosphate = N diphosphate
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30-MAY-2000 (Rel. 3
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015258; 095
                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                             InterPro; IPR004932; Rer1. Pfam; PF03248; Rer1; 1. Transmembrane; Golgi stack
                                                                                                                                                                                                                                                                                                                                                                                                               EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
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Barrow I.K.-P., Boguski M.S., Touchman J., Spencer F.;

Submitted (AUG-1998) to the EMBL/GenBank/DDBJ databases.

-I- FUNCTION: INVOLVED IN THE RETRIEVAL OF ENDOPLASMIC RETICULUM MEMBRANE PROTEINS FROM THE EARLY GOLGI COMPARTMENT (BY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    between the Swiss Institute of Bioinf
the European Bioinformatics Institute
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Mammalia; Eutheria;
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MEDLINE-97454982; Pub
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SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN. GOLGI.
SIMILARITY: BELONGS TO THE RERI FAMILY.
  KRQIKHMIKYR
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AF091071; AAC72940.1;
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5; Conser
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                                                                                                   Score 34;
Pred. No.
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POTENTIAL.

POTENTIAL.

HAATKGILVAMVCTFFDAFNVPVFWPILVMYFIMLFCITMK

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4; Mismatches 0;
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                                                                                  Mismatches
                                                                                                   e 34; DB
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01-NOV-1997 (Rel. 35, I
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Putative modification m
MJAIVMP OR MJ1328
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hypothetical protein; Transferase; Methyltransferase; Restriction system; Complete proteome. SEQUENCE 298 AA; 35328 MW; 9BE52F35B001822B CRC64
                                                                                                                                                                                                                                                                                                                                                    REBASE; 3895;
TIGR; MJ1328;
                                                                                                                                                                                                                                                                                                                                                                       EMBL; U67573; AAB99337.1; -. REBASE; 3895; M.MJaIVP.
                                                                                                                                                                                                                                                                                                                                                                                                                                           use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.lsb-sib.ch/announce/or send an email to license@isb-sib.ch).
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completed: February me : 8.96667 secs
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Pred. No. 37;
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Q9avx8 guillardia
Q9leu2 arabidopsis
Q9vbu6 drosophila
Q99qz8 staphylococ
Q9avw8 guillardia
Q91za8 arabidopsis
Q9thu5 clostridium
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01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DUN-2002 (TrEMBLrel. 21, Last annotation update)
Hyaluronic acid-mediated motility receptor (Fragment)
Ovis aries (Sheep)
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Submitted (AUG-2000) to the EMBL/GenBank/DDBJ databases.
EMBL; AF310973; AAK69578.1; -
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Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
Bovidae; Caprinae; Ovis.
NCBI TaxID=9940;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Aoki T.A., Forteza R.M., "Receptor for hyaluronic
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acid mediated motility in sheep
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SEQUENCE
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MEDLINE=92299690; PubMed=1376732;

Hardwick C., Hoare K., Owens R., Hohn H.P., Hook M.,

Cripps V., Austen L., Nance D.M., Turley E.A.;

"Molecular cloning of a novel hyaluronan receptor the cell motility.";
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Mammalia; Eutheria; Rodentia;
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Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
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                                                                                                                        401
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                                                                                                                           KQKIKHVVKLK 411
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or hyaluronic
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    Created)
    Last sequence update)
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Pred. No. 0.0
); Mismatches
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                                                                                                                                                                                                                                                 Score 54; DB 11
Pred. No. 0.094;
Mismatches
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Sciurognathi; Muridae; Murinae;
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                                                                                                                                                                                                                                                                                                             Length 476;
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Matches 11
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Q9FHM8;
01-MAR-2001
01-MAR-2001
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Q9WUF7;
01-NOV-1999
01-NOV-1999
01-JUN-2001
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                                                                                               Q9FHM8
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SEQUENCE
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(TrEMBLrel. (TrEMBLrel.
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Query Match
Best Local Similarity
                                                                                                                                                                                                           Strausberg R.;
Submitted (JAN-2002)
EMBL; BC021427; AAH21
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01-MAR-2002 (TYEMBLYE1. 20, Last sequence up
01-MAR-2002 (TYEMBLYE1. 20, Last annotation
Similar to hyaluronan mediated motility rece
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=PHEOCHROMOCYTOMA;
Lynn B.D., Li X., Cattini P.A., Nagy J.I.;
Lynn B.D., Li X., Cattini P.A., Nagy J.I.;
"Sequence, protein expression and erk associat
"RHAMM in PC12 cells.";
Submitted (JAN-2001) to the EMBL/GenBank/DDBJ
EMBL; AF133037; AAD24473.1; -.
EMBL; AF336825; AAK21904.1; -.
                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                               Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                  NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN-SPRAGUE DAWLEY;
Li X., Lynn B., Nagy J
"RHAMM cDNA from rat b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                          1 KQKIKHVVKLK
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                                                                    KQKIKHVVKLK
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                                                                                                                                                                                  836 AA;
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PRELIMINARY;
                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                  PRELIMINARY;
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Rodentia;
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Rodentia;
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100.0%; F
tive 0;
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Last annotation updat
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                                                                                                                           Score 54; DB
Pred. No. 0.1
0; Mismatches
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Pred.
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                                                                                                                                                      Length 836;
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Last sequence update)

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RESULT

Q8 879

ID 8879

ID 8879

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Best Local :
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Pfam; PP00069; pkinase; 1.
PRINTS; PR00019; LEURICHRPT.
PRODOM; PD000001; Euk_pkinase; 1
SMART; SM002070; LRR; 5.
SMART; SM00220; S TKC; 1.
SMART; SM002219; TYrKC; 1
                                                                                                                                                                                                                                                                                                                 STRAIN=CV. COLUMBIA;
STRAIN=CV. COLUMBIA;
Rounsley S.D., Lin X., K
Shen M., Ronning C.M., F
Submitted (NOV-1998) to
   STRAIN=CV.
Town C.D.,
Submitted (
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Q8S8K9;
01-JUN-2002
                                                                                                                                                                                             STRAIN=CV.
Lin X.;
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Tabata S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Arabidopsis thaliana (Mouse-ear cress).

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnollophyta; eudicotyledons; core eudicots; Rosid
eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Expressed protein. AT2G06005.
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ATP-binding; Kinase; Transferase.
SEQUENCE 680 AA; 74751 MW; D1079C3CF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Receptor-like protein kinase.

Arabidopsis thaliana (Mouse-ear cress).

Eukaryota, Viridiplantae, Streptophyta, Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;

Spermatophyta; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-JUN-2002
01-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               clones.";
DNA Res. 7:31-63(2000)
                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                               Submitted
                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
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InterPro, IPR003592; LRR out.
InterPro, IPR002390; Ser thr pkinase.
InterPro, IPR001245; Tyr_pkinase.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JUN-2002
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                                                                                                                                                                                                                                                            FROM N.A
. COLUMBIA;
, Kaul S.;
(FEB-2002)
                                                                                                                                                               (MAR-2000)
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2 (TrEMBLrel.
2 (TrEMBLrel.
                                                                                                                                                                                                                              COLUMBIA;
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Y., Kaneko T., K
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Last sequence update)
Last annotation updat
   EMBL/GenBank/DDBJ databases
                                                                                                                                                               EMBL/GenBank/DDBJ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 42; DB
Pred. No. 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             D1079C3CF316D36D CRC64;
                                                                                                                                                                                                                                                                                                                                                     Shea T.P., Fujii C.Y., M., Somerville C.R., V
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Q9AVX8
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Q9AVX8;
01-UUN-2001 (TrEMBLrel. 17, Created)
01-UUN-2001 (TrEMBLrel. 17, Last sequ
01-DEC-2001 (TrEMBLrel. 19, Last anno
Hypothetical 104.0 kDa protein.
Guillardia theta (Cryptomonas phi).
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01-MAY-1997
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Eukaryota; Viridiplantae; Streptophyta; Embry,
Spermatophyta; Magnoliophyta; eudicotyledons;
Asteridae; eussterids I; Lamiales; Oleaceae;
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MEDLINE=21223349; PubMed=11323671; Douglas S., Zauner S., Fraunholz M., Beaton M., Wu X., Reith M., Cavalier-Smith T., Maier U.; "The highly reduced genome of an enslaved algal Nature 410:1091-1096(2001).
                                                                                                                                                                                                                                                                                   MEDLINE=20087226; PubMed=10618395; Zauner S., Fraunholz M., Wastl J., Pe Cavalier-Smith T., Maier U., Douglas "Chloroplast protein and centrosomal telomeres in an unusually compact euk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Cryptophyta;
NCBI_TaxID=55529;
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"Molecular cloning and expression analysis of dihydroflavonol
reductase gene in flower organs of Forsythia x intermedia.";
Plant Mol. Biol. 35:303-311(1997).
EMBL; Y09127; CAA70345.1;
EMBL; Y09127; CAA70345.1;
SEQUENCE 371 AA; 41856 MW; 4FAF14F5F4A8B366 CRC64;
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nes 7; Conserv
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6; Conserv
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60.0%;
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Last sequence update)
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Last annotation updat
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Pred. No. 58;
4; Mismatches
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Pred. No.
                                                                                                                                                                                                                              97:200-205 (2000)
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RESULT OF SERVICE OF S
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C Q9VBU6;
C Q9VBU6;
OT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAY-2000 (TrEMBLrel. 21, Last annotation update
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update
CG11857 protein (RE24638p).
GN CG11857 protein (RE24638p).
GN CG11857 protein (RE24638p).
OS Drosophila melanogaster (Fruit fly).
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Meoptera; Endopterygota; Diptera; Brachwdroidea; Drosophilade; Drosophila.
          QPYBULT 11
QPYBU
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CG118
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Q9LEU2; PRELIMINARY; PR
Q9LEU2; PREMBLrel. 15, Cree
01-OCT-2000 (TrEMBLrel. 15, Last
01-UN-2001 (TrEMBLrel. 17, Last
Hypothetical 16.9 kDa protein.
T30N20_260.
MEDLINE=20196006; PubMed=10731132; Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D. Adams M.D., Scherer S.E., Li P.W., Hoskins R.A., Galle R. Amanatides P.G., Scherer S.E., Richards S., Ashburner M., Henderson George R.A., Lewis S.E., Richards S., Ashburner M., Henderson Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
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Submitted (JUL-2000) to the EM
EMBL; AL365234; CAB96854.1; -
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                                                                                                                                                                                      STRAIN=BERKELEY;
                                                                                                                                                                                                                      SEQUENCE FROM N.A.
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Bevan M., Peters S.A., V
Bancroft I., Mewes H.W.,
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Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; edicotyledons; core eudicots; Rosidae;

eurosids II; Brassicales; Brassicaceae; Arabidopsis.
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., Rudd S., Lemcke K., Mayer K.F.X.;
o the EMBL/GenBank/DDBJ databases.
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he EMBL/GenBank/DDBJ
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Pred. No.
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a; Brachycera; Muscomorpha;
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Best L
                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                Q99QZ8 PRELIMINARY; PRT; 624 AA.
Q99QZ8,
Q1-JUN-2001 (TrEMBLrel. 17, Created)
O1-JUN-2001 (TrEMBLrel. 17, Last sequence update)
O1-JUN-2002 (TrEMBLrel. 21, Last annotation update)
Hypothetical protein SAV2640.
SAV2640 OR SA2433.
                Staphylococcus aureus Bacteria, Firmicutes,
                                                      Staphylococcus aureus
                                                                                                                                                                                                                                                                                                                                                                                                                                      Miranda A.,
Patel S., F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FlyBase; FBgn0039303; CG11857.
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EMBL; AE003751; AAF5
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AY094863; AAM11216.1;
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                (strain N315).
Bacillus/Clostridium
                                                      (strain Mu50 /
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Pred. No.
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                                                    ATCC 700699), and
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                group; Bacillales;
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EMBL; AP003366; BABS-8802.1; -.

EMBL; AP003366; BABS-8802.1; -.

InterPro; IPR001550; BglG antitermin.

InterPro; IPR001578; PTS EIIA 2.

Pfam; PF00874; BglG antitermin; 1.

Pfam; PF00874; BglG antitermin; 1.

Pfam; PF00879; PTS EIIA 2; 1.

PRODOM; PD001689; PTS EIIA 2; 1.

PROSITE; PS00372; PTS EIIA 2; 1.
                                                                   Nature 410:1091-1096(2001).

EMBL; AJ010592; CAC277103.1; -..

InterPro; IPR007722; RNA pol A.

InterPro; IPR002879; RNA pol A2.

Pfam; PF00623; RNA pol A; 1.

Pfam; PF01854; RNA pol A2; 1.

DNA-directed RNA polymerase; Nucle
SEQUENCE 1473 AA; 168897 MW; F
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Q9AVW8;
01-JUN-2001
                                                                                                                                                                                                                                                                                                Douglas
Wu X., R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=20087226; PubMed=10618395; Zauner S., Fraunholz M., Wastl J., Penny Cavalier-Smith T., Maier U., Douglas S.; "Chloroplast protein and centrosomal gene telomeres in an unusually compact eukaryo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Guillardia theta (Cryptomonas phi).
Eukaryota; Cryptophyta; Cryptomonadaceae;
CCBI_TaxID=55529;
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MEDLINE-21311952; PubMed-11418146;
Kuroda M., Ohta T., Uchiyama I., Baba T., Yuzawa H., Kobayashi I.,
Cui L., Oguchi A., Aoki K.-I., Nagai Y., Lian J.-Q., Ito T.,
Cui L., Oguchi A., Aoki K.-I., Nagai Y., Lian J.-Q., Ito T.,
Kanamori M., Matsumaru H., Maruyama A., Murakami H., Hosoyama A.,
Mizutani-Ui Y., Takahashi N.K., Sawano T., Inoue R.-I., Kaito C.,
Sekimizu K., Hirakawa H., Kuhara S., Goto S., Yabuzaki J.,
Kanehisa M., Yamashita A., Oshima K., Furuya K., Yoshino C., Shiba
Hattori M., Ogasawara N., Hayashi H., Hiramatsu K.;
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01-JUN-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    nucleomorph.
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Local Similarity
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Reith M., Cavalier-Smith T.,
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(TremBLrel. 21, Last ann
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Pred. No. 1.4e+02;
2; Mismatches 2
Score
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                                                                                                Nucleotidyltransferase; Transferase
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Maier U.
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DB 10;
3.1e+02;
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01-MAR-2002
01-MAR-2002
01-MAR-2002
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01-OCT-2000
01-OCT-2000
01-DEC-2001
                                                                                                                                                                                                   Shimizu T. Shiba T.,
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SEQUENCE 1495 AA; 169293 MW
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosid
eurosids II; Brassicales; Brassicaceae; Arabidopsis.
NCBI_TaxID=3702;
                                                                                                                                                                                                                                                                                                                                         Clostridium perfringens.
Bacteria; Firmicutes; Bacillus/Clostridium group;
Clostridiales; Clostridiaceae; Clostridium.
                                                                             Hypothetical SEQUENCE 1
                                                                                                                                                                                                                                     STRAIN=13 / TYPE A;
PubMed=11792842;
                                                                                                                                                                                                                                                                                                                                                                                                     Hypothetical CPE2382.
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Bancroft I., Mewes H.W.,
Submitted (MAR-2000) to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
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                                                                                                                                                            flesh-eater.";
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hetical protein; Complete
Similarity
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Ngasawara N., Hattori M., Kuhara S.,
Ngasawara N., Hattori M., Kuhara S.,
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102 AA; 11428
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., Rudd S., Lemcke K., Mayer K.F.X.;
o the EMBL/GenBank/DDBJ databases.
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  Score 36; DB Pred. No. 41; 1; Mismatches
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              DB 41;
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 Job time: 27.9333 secs

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Maximum Match 100%
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/cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
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US-09-801-368-348
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11 US-09-815-242-11507
12 US-09-815-242-11507
13 US-09-815-242-10790
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15 US-09-815-242-10790
16 US-09-870-759-82
17 US-09-870-759-82
18 US-09-105-694-2
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Sequence 35, Appl
Sequence 11507, A
Sequence 11507, A
Sequence 2, Appli
Sequence 7, Appli
Sequence 82, Appli
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Sequence 3, Appli
Sequence 10, Appli
Sequence 10, Appli
Sequence 110, Appli
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Sequence
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Sequence
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348, App
34027, A
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#### ALIGNMENTS

US-08-996-470-1

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; FEATURE:
; NAME/KEY: BINDING
; LOCATION: (1)..(12)
; OTHER INFORMATION: A peptide mimicking Domain I (amino acids 401-411)
; OTHER INFORMATION: of the hyaluronic acid binding region of RHAMM
US-08-996-470-1
                                                                                                                                                                                                                                                                                                                                                                                                EARLIER APPLICATION NUMBER: US 07/675,908
EARLIER FILING DATE: 1991-07-03
EARLIER FILING DATE: 1992-02-21
EARLIER APPLICATION NUMBER: US 08/125,398
EARLIER FILING DATE: 1993-09-23
EARLIER FILING DATE: 1993-09-23
EARLIER APPLICATION NUMBER: US 08/285,764
EARLIER APPLICATION NUMBER: US 08/285,764
EARLIER APPLICATION NUMBER: US 07/952,095
EARLIER FILING DATE: 1994-08-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
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                              Query Match
Best Local
   Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/08/996,470P
CURRENT FILING DATE: 1997-12-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                    ORGANISM: Artificial Sequence
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TYPE: PRT
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      Conservative
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                           100.0%;
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Score 54; DB 8;
Pred. No. 0.001;
Mismatches
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CURRENT APPLICATION NUMBER: US/09/801,368

CURRENT FILING DATE: 2001-03-07

PRIOR APPLICATION NUMBER: US 09/487,558

PRIOR FILING DATE: 2000-01-19

PRIOR APPLICATION NUMBER: US 60/160,587

PRIOR FILING DATE: 1999-10-20

NUMBER OF SEQ ID NOS: 440

SOFTWARE: Patentin version 3.0

SEQ ID NO 348

LENGTH: 785

TYPE: PRT
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US-09-801-368-348
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Best Local
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                                                                                                                                                                                                                                                                          APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
FILE REFERENCE: Aeomica-x-1
                                                                                                                PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR EILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
                                                                                                                                                                                                                                                                                                                                     APPLICANT: Penn, Sharron G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K
APPLICANT: Chen, Wensheng
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                                                                         PRIOR APPLICATION NUMBER: GB 24263.6 PRIOR FILING DATE: 2000-10-04
                                                                                                                                                                                              CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
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TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi
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nes 6; Conserva
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                                  APPLICATION NUMBER: US 60/236,359 FILING DATE: 2000-09-27
                  APPLICATION NUMBER: PCT/US01/00666
                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sherman, Amir
Silva, Jeff
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No. US20020128250Alman,
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66.7%;
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RESULT 4
US-09-840-787-35
US-09-840-787-35
Sequence 35, Application US/09840787
PATENT NO. US20020058264A1
GENERAL INFORMATION:
APPLICANT: Lal, Preeti
Hillman, Jennifer L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: MAP TO AC005060.2

OTHER INFORMATION: EXPRESSED IN BOUE MARROW, SIGNAL = 3.2

OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3.4

OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.8

OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.4

OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.4

OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.

OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 3.7

OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 3.7

OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 3.4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: US 09/774,203 PRIOR FILING DATE: 2001-01-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: US 09/608,408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Homo sapiens FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 KQELKHAGKVK 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 KQKIKHVVKLK 11
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                                                                                                                        Guegler, Karl J.
Corley, Neil C.
TITLE OF INVENTION: HUMAN REGULATORY MOLECULES
NUMBER OF SEQUENCES: 98
                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: PCT/US01/00662 FILING DATE: 2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: PCT/US01/00663 FILING DATE: 2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: PCT/US01/00668
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: PCT/US01/00670
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 2001-01-30
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 2001-01-30
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity 6; Conserv
                          ADDRESSEE: Incyte Pharmaceuticals, STREET: 3174 Porter Drive
CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                          Yue, Henry
                                                                                                                                                                                                                                                                                                                         Shah, Purvi
                                                                                                                                                                                                                                                                                                                                                       Hillman, Jennifer
Bandman, Olga
                                                                                                                                                                                                                                                                                           Au-Young, Janice
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54.5%;
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Pred. No. 6
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6.1;
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US-09-799-777-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 73, Application US/09799777 Patent No. US20020091244A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 63.9
Best Local Similarity 45.9
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEX: <Unknown> information for seQ id No: 35:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        163 KRQIKHMIKYR 173
      COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/799,777

FILING DATE: 06-Mar-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
                                                                                                                                                                                                                                                                           Baugh, Mariah
Sather, Susan
Shah, Purvi
TITLE OF INVENTION: HUMAN SIGNAL PEPTIDE-CONTAINING PROTEINS
NUMBER OF SEQUENCES: 154
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: PF-0356 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/518,865
FILING DATE: <Gnknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/840,787
FILING DATE: 23-Apr-2001
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM: MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Lal, Preeti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
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OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                    CITY: PALO ALTO
STATE: CALIFORNIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LIBRARY: BLADNOT06
CLONE: 1720770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acids
                                                                                                                                                                                                                                                            STREET: 3174 PORTER DRIVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS: single
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                   COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                       Hillman, Jennifer L.
Corley, Neil C.
Guegler, Karl J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     63.0%;
45.5%;
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RESULT 6
US-09-815-242-11507
; Sequence 11507, Application
; Sequence US20020061569A1
                                                                                                                                                                                                                                                                 FILE OF INVENIOR.

FILE REFERENCE: ELITA, 011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-10-23
PRIOR FILING DATE: 2000-11-27
PRIOR FILING DATE: 2000-11-27
PRIOR FILING DATE: 2000-11-27
                                                           ; ORGANISM: Helicobacter pylori US-09-815-242-11507
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; SEQUENCE DESCRIPTION: SEQ ID NO: US-09-799-777-73
                                                                                                                                      SOFTWARE: FastSEQ
SEQ ID NO 11507
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes
TITLE OF INVENTION: Prokaryotes
                                                                                                                                                          NUMBER OF SEQ ID NOS: 14110 SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                    PRIOR FILING DATE: 2000-12-22 PRIOR APPLICATION NUMBER: 60/269,308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
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                                                                                                                                                                                                 PRIOR FILING DATE: 2001-02-16
                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/257,931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: 73:
                                                                                                                     LENGTH: 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               204 KRQIKHMIKYR 214
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 KQKIKHVVKLK 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: BILLINGS, LUCY J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0459 US
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 237 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Haselbeck, Robert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LIBRARY: LUNGTO
CLONE: 3115936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: (650) 855-05
TELEFAX: (650) 845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/09/002,485 FILING DATE: <Unknown>
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Trawick, John D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ohlsen, Kari L.
Zyskind, Judith W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Carr, Grant J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Yamamoto, Robert T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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  63.0%;
66.7%;
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Pred. No.
  Score
Pred.
  34;
No.
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  DB 10;
1.1e+02;
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RESULT 9 US-09-815-242-10790 Sequence 107:0, Application US/09815242
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US-09-431-226-7
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                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 7, Application US/09431226
Patent No. US20020115599A1
GENERAL INFORMATION:
APPLICANT: VERNOS, ISAbelle
APPLICANT: KARSENTI, ETIC
APPLICANT: WITTMANN, Torsten
                                                                                                                                               Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2
LENGTH: 747
TYPE: PRT
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Best Local
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CURRENT FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: EP 99106710.9
                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: KARSENTI, Eric
APPLICANT: WITTMANN, Torsten
TITLE OF INVENTION: TPX2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: JP 11/103356
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEO ID NOS: 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/974,143A
CURRENT FILING DATE: 2002-04-19
PRIOR APPLICATION NUMBER: PCT/JP00/02281
PRIOR FILING DATE: 2000-04-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Nezu, Jun-1chi
APPLICANT: Ose, Asuka
TITLE OF INVENTION: NOVEL FETAL GENES
FILE REFERENCE: 06501-089001
FILE REFERENCE: 06501-089001
                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: EP PRIOR FILING DATE: 1999-04-01
                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE:
                                                                                                                                                                                                                                            LENGTH: 747
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Homo sapiens
                                                                                 131 EQKEKHHVKMK 141
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                                                                                                                1 KOKIKHVVKLK 11
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Pred. No. 1.7e+02;
"'Amatches 2;
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Pred. No. 1.7e+02;
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US-09-870-759-82
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                                                                  Matches
                                                                                              Query Match
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TYPE: PRT
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    144 KEKIQHVFK 152
                                                                 Local Similarity hes 6; Conserv
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                                  1 KQKIKHVVK 9
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GENERAL INFORMATION:
APPLICANT: TERNAN, DAVId S
ITITLE OF INVENTION: COMPOSITIONS AND METHODS
FILE REFERENCE: 870759
CURRENT APPLICATION NUMBER: US/09/870,759
CURRENT FILING DATE: 2002-01-14
PRIOR APPLICATION NUMBER: US 60/208,128
PRIOR FILING DATE: 2000-05-30
NUMBER OF SEQ ID NOS: 166
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TITLE OF INVENTION: Identification of Essential Genes in
TITLE OF INVENTION: Prokatyotes

FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191.078
PRIOR APPLICATION NUMBER: 60/291.078
PRIOR FILING DATE: 2000-03-21
PRIOR FILING DATE: 2000-05-23
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242.578
PRIOR APPLICATION NUMBER: 60/242.578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253.625
PRIOR FILING DATE: 2000-11-27
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/259.308
PRIOR APPLICATION NUMBER: 60/259.308
PRIOR APPLICATION NUMBER: 60/269.308
                                                                                                          ; ORGANISM: Staphylococcus aureus US-09-870-759-82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; ORGANISM: Enterococcus faecalis US-09-815-242-10790
                                                                                                                                                             SOFTWARE: PatentIn version 3.1
SEQ ID NO 82
LENCTH: 330
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 82, Application US/09870759 Patent No. US20020177551A1
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SOFTWARE: FastSEQ for Windows Version
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Zyskind, Judith W.
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Trawick, John D.
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  Conservative
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50.0%;
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66.7%;
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                         Score 33; DB 9;
Pred. No. 1.1e+02;
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Pred. No. 34;
Mismatches
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                                               Length 330;
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Indels
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RESULT 13
US-09-747-521-2
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TYPB: PRT
; ORGANISM: Bacillus anthracis
US-10-105-694-2
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US-10-105-694-2
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US-10-105-695-2
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SEQ ID NO 2
GENERAL INFORMATION:
APPLICANT: Galloway, Darrel
APPLICANT: Mateczun, Alfred
APPLICANT: Mateczun, Alfred
TITLE OF INVENTION: Methods for Protection Against Lethal Infection with Bacillus
FILE REFERENCE: 22727/04079
CURRENT APPLICATION NUMBER: US/09/747,521
CURRENT FILING DATE: 2000-12-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: Galloway, Darrel R.
APPLICANT: Mateczun, Alfred J.
APPLICANT: Mateczun, Alfred J.
TITLE OF INVENTION: Methods for Protection Against Lethal Infection with Bacillus
FILE REFERENCE: 22727/04115
CURRENT APPLICATION NUMBER: US/10/105,695
CURRENT FILING DATE: 2002-03-25
CURRENT FILING DATE: 2002-03-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 2, Application US/10105694 Publication No. US20030003109A1 GENERAL INFORMATION:
                                                                                                                                            Sequence 2, Application US/09747521 Patent No. US20020051791A1
                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                             Matches
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CURRENT FILING DATE: 2002-03-25
PRIOR APPLICATION NUMBER: US 09/747,521
PRIOR FILING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Galloway, Darrel R.
APPLICANT: Mateczun, Alfred J.
TITLE OF INVENTION: Methods for Protection Against Lethal Infection with Bacillus
FILE REFERENCE: 22727/04116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: US 09/747,521
PRIOR FILING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 8
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Similarity 45.5%;
5; Conservation
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                                                                                                                                                                                                                                                                                                                                                           61.1%;
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Pred. No. 2
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Pred. No. 2.7e+02;
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2.7e+02;
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RESULT 14
US-10-106-014-2
; Sequence 2, Ap
; NAME/KEY: VARIANT
; LOCATION: (1)...(1381)
; OTHER INFORMATION: Xaa
US-09-930-871-8
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Best Local Similarity
Thehes 5; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
LENGTH: 809
TYPE: PRT
ORGANISM: Bacillus anthracis
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Best Local (
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                                                                                                                                                                                       FILE REFERENCE: LEX-0216-USA
CURRENT APPLICATION NUMBER: US/09/930,871
CURRENT FILING DATE: 2001-08-14
PRIOR APPLICATION NUMBER: US 60/225,989
PRIOR FILING DATE: 2000-08-16
                                                                                                                                                                                                                                                                                                                APPLICANT: Turner, C. Alexander Jr
APPLICANT: Mathur, Daniel
APPLICANT: Mathur, Brian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Galloway, Darrel R.
APPLICANT: Mateczun, Alfred J.
TITLE OF INVENTION: Methods for Protection Against Lethal Infection with Bacillus FILE REFERENCE: 22727/04114
CURRENT APPLICATION NUMBER: US/10/106,014
CURRENT FILING DATE: 2002-03-25
PRIOR APPLICATION NUMBER: US 09/747,521
PRIOR APPLICATION NUMBER: US 09/747,521
PRIOR FILING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 8
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                                                                                                                                                                                                                                                                             TITLE OF INVENTION: No. US20020076780Alel Human Ion Channel Proteins and Polynucle TITLE OF INVENTION: Same
                                                                                                                                                         SOFTWARE:
                                                                                                                                                                           NUMBER OF SEQ ID NOS:
                                                                   ORGANISM: homo sapiens FEATURE:
                                                                                                      LENGTH: 1381
TYPE: PRT
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                Any Amino Acid
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Pred. No.
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Pred. No.
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2.7e+02;
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2.7e+02;
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Best Local Similarity 75.0; Fred Do .1.e602.

Matches 6: Conservative 1: Mismatches 1: Indels 0: Gaps 0:

Dy 3 KINNYKL 10

Db 745 KYNNYKL 752

Search Completed: February 8, 2003, 10:52:09

Job Line: 8.7 secs
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Result
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Perfect score:
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        55444
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Match
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Copyright (c) 1993 - 2003 Compugen Ltd.
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        1111111
7 US-08-318-892-3
7 US-08-318-892B-3
15 US-09-169-077-1
18 US-09-424-292-4
20 US-09-685-010-30
23 US-09-978-309A-30
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Sequence 3, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 4, Appli
Sequence 30, Appl
Sequence 30, Appl
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•	47,	4, A	e 80,	81,	e 15,	77,	e 18,	14,	e 16,	e 16,	e 48,	48,	Sequence 6, Appli	Sequence 67341, A	Ø	2, Ap	79,	e 77, App	e 42	'n	e 8(	13, 1	•	83,	73,	463,	74,	w	76.	75, Ar	equence 1174	82,	81,	51,	e 51,	e 1. Apr	Sequence 9, Appli	Appl

# ALIGNMENTS

US-08-318-892-3

Sequence 3, Application US/08318892

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REGISTRATION NUMBER: 30,709 REFERENCE/DOCKET NUMBER: SIM-8	ATTORNEY/AGENT INFORMATION:	CLASSIFICATION: 536	FILING DATE: 1-DEC-1994	APPLICATION NUMBER: US/08/318,892	CURRENT APPLICATION DATA:	SOFTWARE: WordPerfect 6.1	OPERATING SYSTEM: PC-DOS/MS-DOS	COMPUTER: IBM PC compatible	MEDIUM TYPE: Floppy disk	COMPUTER READABLE FORM:	ZIP: 10020	COUNTRY: USA	STATE: N.Y.	CITY: New York	STREET: 1251 Avenue of the Americas	ADDRESSEE: C/O FISH & NEAVE	CORRESPONDENCE ADDRESS:	NUMBER OF SEQUENCES: 29	TITLE OF INVENTION: PEPTIDES	TITLE OF INVENTION: FOR HYALURONAN MEDIATED MOBILITY) AND HYALURONAN BINDING	TITLE OF INVENTION: HYALURONAN RECEPTOR (RHAMM = RECEPTOR	APPLICANT: Turley, Eva A	GENERAL INFORMATION:

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RESULT 3
US-09-169-077-1
; Sequence 1, Application US/09169077
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Matches 11; Conserv
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APPLICANT: Turley, Eva A
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Best Local Similarity
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LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: Linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                        TELEFAX: (212) 596-90 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (212) 596-9090 INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
NAME: Plerri, Margaret A
REGISTRATION NUMBER: 30709
REFERENCE/DOCKET NUMBER: SIM-8
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Release #1.0, CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: c/o FISH & NEAVE
STREET: 1251 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Turley, Eva A
TITLE OF INVENTION: HYALURONAN RECEPTOR
TITLE OF INVENTION: HYALURONAN MEDIATED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 1-CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/08/318,892B
FILING DATE: 1-DEC-1994
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                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE:
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                                                                                                                                                                      Score 54; DB 7;
Pred. No. 0.0071;
                                                                                                                                                          Mismatches
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                                                                                                                                                                                         DB 7; Length 11;
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RESULT 5
US-09-685-010-30
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; OTHER INFORMATION: Synthetic
US-09-424-292-4
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                                                                                                                                                                                                                                                                                    SEQ ID NO 4
LENGTH: 11
TYPE: PRT
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                                                                                                                                           Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/424,292
CURRENT FILING DATE: 2000-07-06
PRIOR APPLICATION NUMBER: PCT/CA98/00448
PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: CA 2,205,771
PRIOR APPLICATION NUMBER: CA 2,205,771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Turley, Eva A
TITLE OF INVENTION: Improved Delivery of Disease Modifiers
FILE REFERENCE: 205375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: GB 90
FILING DATE: 10-APR-1996
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                         PRIOR FILING DATE: 1997-05-22
NUMBER OF SEQ ID NOS: 36
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                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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                                                                                                                                                          Match 100.0%; Score 54; DB 18; Local Similarity 100.0%; Pred. No. 0.0071;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
STRANDEDNESS: sin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
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1 KQKIKHVVKLK 11
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                                                                                                                                             Conservative
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linear
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Pred. No. 0.0071;
                                                                                                                                             Mismatches
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Sequence 30, Application US/09685010; GENERAL INFORMATION:
APPLICANT: Turley, Eva A.
APPLICANT: Cruz, Tony F.

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US-08-318-892-9
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US-09-978-309A-30
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            Sequence 9, Application US/08318892
GENERAL INFORMATION:
APPLICANT: Turley, Eva A
TITLE OF INVENTION: HYALURONAN RECEPTOR (RHAMM = RECEPTOR
TITLE OF INVENTION: FOR HYALURONAN MEDIATED MOBILITY) AND HYALURONAN BINDING
TITLE OF INVENTION: PEPTIDES
NUMBER OF SEQUENCES: 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
TITLE OF INVENTION: CELLULAR RESPONSE TO INJURY AND OTHER PROLIFERATING CELL
TITLE OF INVENTION: DISORDERS REGULATED BY HYALADHERIN AND HYALURONANS
FILE REFERENCE: 910130.401C1
CURRENT APPLICATION NUMBER: US/09/685,010
CURRENT FILING DATE: 2001-05-23
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 30 LENGTH: 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Compositions and Methods for Treating Cellular Response TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders Regulated TITLE OF INVENTION: Hyaladherin and Hyaluronans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Cruz, Tony
APPLICANT: Pastrak, Aleksa
APPLICANT: Turley, Eva A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 84
                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: Peptide composition that binds a hyalauronan
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  CORRESPONDENCE
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Local Similarity 100.0%;
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ADDRESS:
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Pred. No. 0.0071;
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Pred. No. 0.0071;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
NAME: Pierri, Margaret A
REGISTRATION NUMBER: 30,709
REFERENCE/DOCKET NUMBER: SIM-
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION 10,000
                TELEFAX: (212) 596-90 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                           REFERENCE/DOCKET NUMBER: SI
TELECOMMUNICATION INFORMATION:
                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Pierri, Margaret A
                                                                                                                                                   CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/
FILING DATE: 1-DEC-1994
                                                                                                                                                                                                                                               COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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 SEQUENCE
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STREET: 12
CITY: New
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                                                                                                                                                                                                COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0
                                                                                                                                                                                                                                                                              COUNTRY: US
ZIP: 10020
                                                                                                                                                                                                                                                                                                            CITY: New York STATE: N.Y.
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OPERATING SYSTEM:
                                             TELEPHONE:
                                                                                        REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                         STREET:
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                                                                                                                                       CLASSIFICATION:
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amino acid
CHARACTERISTICS:
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            (212) 596-9090
(212) 596-9090
(212) TD NO: 9:
                                                                                                                                                                                                                                                                                                                                                                                                                                 Turley, Eva A
                                                                                                                                                                                                  PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WordPerfect 6.1
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SYSTEM: PC-DOS/MS-DOS
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NO: 9:
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                                                                                                                                                                     US/08/318,892B
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RESULT 10
US-09-685-010-51
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EARLIER FILING DATE: 1992-02-21
EARLIER FILING DATE: 1992-02-21
EARLIER FILING DATE: 1992-02-21
EARLIER APPLICATION NUMBER: US 08/125,398
EARLIER FILING DATE: 1993-09-28
EARLIER APPLICATION NUMBER: US 08/285,764
EARLIER FILING DATE: 1994-08-03
EARLIER FILING DATE: 1994-08-03
EARLIER APPLICATION NUMBER: US 07/952,095
EARLIER FILING DATE: 1992-09-28
NUMBER OF SEO ID NOS: 2
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                                                                                                                                                                          Sequence 51, Application US/09685010 GENERAL INFORMATION:
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              APPLICANT: Turley, Eva A.
APPLICANT: Cruz, Tony F.
APPLICANT: Cruz, Tony F.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
TITLE OF INVENTION: CELLULAR RESPONSE TO INJURY AND OTHER PROLIFERATING
TITLE OF INVENTION: DISORDERS REGULATED BY HYALADHERIN AND HYALURONANS
FILE REFERENCE: 910130.401C1
CURRENT APALICATION NUMBER: US/09/885,010
CURRENT FILING DATE: 2001-05-23
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NUMBER OF SEQ ID HOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EARLIER APPLICATION NUMBER: US 07/675,908 EARLIER FILING DATE: 1991-07-03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: BINDING
LOCATION: (1). (12)
OTHER INFORMATION: A peptide mimicking Domain I (amino acids 401-411)
OTHER INFORMATION: of the hyaluronic acid binding region of RHAMM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence
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TOPOLOGY: 11:
MOLECULE TYPE:
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11; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Use of Hyaluronic Acid and Forms to Prevent Arterial Restenosis
                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                       Score 54; DB 13; Pred. No. 0.0079;
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Pred. No. 0.0079;
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                                                                                                                                                                                                                                                                                                                                                                                                           DB 13;
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                                                                                                                                                                                                                                                                                                                                                                       0;
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RESULT 12
US-09-978-309A-81
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Best Local Similarity
"~+~has 11; Conserv?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; OTHER INFORMATION: Peptide used US-09-978-309A-51
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SOFTWARE: Fas
SEQ ID NO 51
FENGTH: 32
                                                                                                                                                                                                                                                          Sequence 81, Application US/09978309A GENERAL INFORMATION:
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Best Local Similarity 100
Matches 11; Conservative
                                                                                                    APPLICANT: Cruz, Tony
APPLICANT: Pastrak, Aleksandra
APPLICANT: Turley, Eva A.
TITLE OF INVENTION: Compositions and Methods for Treating Cellular Response to
TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders Regulated by
TITLE OF INVENTION: Hyaladherin and Hyaluronans
FILE REFERENCE: 033352-010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 50
                                           CURRENT APPLICATION NUMBER: US/09/978,309A CURRENT FILING DATE: 2002-04-04 PRIOR APPLICATION NUMBER: US 09/685,010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Pastrak, Aleksandra
APPLICANT: Turley, Eva A.
APPLICANT: Turley, Eva A.
TITLE OF INVENTION: Compositions and Methods for Treating Cellular Response to
TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders Regulated by
TITLE OF INVENTION: Hyaladherin and Hyaluronans
TILE REFERENCE: 033058-2010
CURRENT APPLICATION NUMBER: US/09/978,309A
CURRENT FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: US 09/685,010
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR FILING DATE: 2000-04-03
PRIOR FILING DATE: 2000-04-03
PRIOR FILING DATE: 2000-04-03
PRIOR APPLICATION NUMBER: US 09/685,010 PRIOR FILING DATE: 2000-10-05 PRIOR APPLICATION NUMBER: US 09/541,522
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PRIOR FILING DATE: 1999-04-01
NUMBER OF SEQ ID NOS: 84
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TYPE: PRT
ORGANISM: Unknown
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ORGANISM: Unknown
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Pred. No. 0.025;
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Pred. No. 0.025;
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QΥ
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; TYPE: PRT
; ORGANISM: Mus musculus
US-09-978-309A-82
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US-09-978-309A-82
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Best Local Similarity
Matches 11; Conserv
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SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 82
LENGTH: 32
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LENGTH: 32
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APPLICANT:
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APPLICANT:
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PRIOR FILING DATE: 2000-10-05
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR FILING DATE: 2000-04-03
PRIOR APPLICATION NUMBER: US 60/127,457
PRIOR FILING DATE: 1999-04-01
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TITLE OF INVENTION: Compositions and Methods for Treating Cellular Response to

TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders Regulated by

TITLE OF INVENTION: Hyaladherin and Hyaluronans

FILE REFERENCE: 033352-010

CURRENT APPLICATION NUMBER: US/09/978,309A

CURRENT FILING DATE: 2002-04-04
CURRENT APPLICATION NUMBER: US/09/657,276
CURRENT FILLNG DATE: 2000-09-07
PRIOR APPLICATION NUMBER: 60/134,406
PRIOR FILING DATE: 1999-05-17
                                                                           TITLE OF INVENTION: PROTECTION OF ENDOGENOUS THERAPEUTIC PEPTIDES FROM TITLE OF INVENTION: PEPTIDASE ACTIVITY THROUGH CONJUGATION TO BLOOD TITLE OF INVENTION: COMPONENTS FILE REFERENCE: 2110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Cruz, Tony
APPLICANT: Pastrak, A
APPLICANT: Turley, E
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PRIOR FILLING DATE: 1999-04-01
NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSEQ for Windows Version 4
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Local Similarity 100.0%;
nes 11; Conservative (
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                                                                                                                                                    Milner, Peter
Holmes, Darren
Thibaudeau, Karen
                                                                                                                                                                                                                 Bridon, Dominique
Ezrin, Alan
                                                                                                                                                                                                                                                       Conjuchem, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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Pred. No. 0.025;
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Pred. No. 0.025;
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; LENGTH: 221
; TYPE: PRT
; ORGANISM: Mus n
US-09-978-309A-75
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Search completed: February Job time: 147.3 secs
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                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: US 09/685,010
PRIOR FILING DATE: 2000-10-05
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR FILING DATE: 2000-04-03
PRIOR APPLICATION NUMBER: US 60/127,457
PRIOR FILING DATE: 1999-04-01
NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSEQ for Windows Version 4.0
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                                                                                                                                                                                                                                                                                   SEQ ID NO 75
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SEQ ID NO 1174
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Best Local Similarity
                                                                                                                                       Best Local Similarity
Matches 11; Conserva
                                                                                                                                                                          Query Match
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APPLICANT: Turley, Eva A.
TITLE OF INVENTION: Compositions and Methods for Treating Cellular Response to
TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders Regulated by
TITLE OF INVENTION: Hyaladherin and Hyaluronans
FILE REFERENCE: 03352-010
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PRIOR FILING DATE: 1999-09-10
PRIOR APPLICATION NUMBER: 60/1
PRIOR FILING DATE: 1999-10-18
                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/978,309A CURRENT FILING DATE: 2002-04-04
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TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                   173 KQKIKHVVKLK 183
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                                                                                    1 KQKIKHVVKLK 11
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                                                                                                                                       100.0%; illarity 100.0%; Conservative 0;
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                2003, 10:50:49
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Pred. No. 0.
                                                                                                                                                        Score 54; DB 23; Pred. No. 0.25;
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                                                                                                                                                                          Length 221;
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                                                                                                                                       0;
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                                                                                                                                      Gaps
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Run on:
                                                                                            OM protein - protein search, using sw model
February 8, 2003, 10:41:35; Search time 16.5 Seconds (without alignments) 54.053 Million cell updates/sec
                                                                                                                                                                GenCore version 5.1.3 Compugen Ltd.
```

Title: Perfect score: Sequence: US-09-685-010-30 54 1 KQKIKHVVKLK 11

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

Searched: 405691 segs, 81078759 residues

Total number of hits satisfying chosen parameters: 405691

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

Pending\_Patents\_AA\_New:\*

1: /cgn2\_6/ptodatta/2/paa/PCT\_NEW\_COMB.pep:\*

2: /cgn2\_6/ptodata/2/paa/US06\_NEW\_COMB.pep:\*

3: /cgn2\_6/ptodata/2/paa/US07\_NEW\_COMB.pep:\*

4: /cgn2\_6/ptodata/2/paa/US08\_NEW\_COMB.pep:\*

5: /cgn2\_6/ptodata/2/paa/US09\_NEW\_COMB.pep:\*

6: /cgn2\_6/ptodata/2/paa/US09\_NEW\_COMB.pep:\*

7: /cgn2\_6/ptodata/2/paa/US09\_NEW\_COMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	37		272	G,	US-09-134-000C-6100	
ν	37	68.5	272	υ	-09-134-000C-6	e 610
ω	37		624	σ	-09-950-084-68	e 6869,
4	36		234	6	-10-092-411A-319	e 3195,
u	36	66.7	284	ű	-09-134	e 5495,
σ	36	66.7	284	S	-000C-549	5495,
7	36		1388	μ		e 164,
80	36		1388	σ	US-10-188-832-164	(D)
9	35		188	ŋ	-950-084-480	4804,
10	35		708	Ŋ	-676-9635	96355,
11	35		708	σ	US-09-724-676A-96355	
12	35		715	σı	-09-724-676-9	Œ
13	35		715	S	63	96354,
14	35		715	υ	US-09-724-676A-96353	96353,
15	35	64.8	715	S	US-09-724-676A-96354	Sequence 96354, A
16	35		797	5	US-09-724-676-96352	е 96352,
17	35		797	5	3	æ
18	. 35		804		US-09-724-676-96351	96351,
19	35		804		-724-676A-963	Sequence 96351, A
20	35		1097		US-10-276-774-2203	e 2203,
21	34		30		US-10-203-138A-11061	e 1
22	34		405	6	2-411A-	•
23	34		433	ر.	US-09-724-676-52315	5231
24	34		433	Çī	-09-724-676A-	e 52315,
25	34		518	σ	US-10-092-411A-4744	ص.
26	34	63.0	588	U	US-09-724-676-52313	Sequence 52313, A

4 4 5	ω.	42	41	40	39	38	37	36	<u>ა</u>	34	S S	32	31	30	29	28	27
ω ω 4 4	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0		63.0	63.0
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US-10-245-882-210 US-10-304-095-8	US-09-724-676A-52314	US-09-724-676-52314	PCT-US02-29560-210	US-10-228-063-36	US-10-228-063-26	PCT-US02-27129-36	PCT-US02-27129-26	US-10-228-063-27	PCT-US02-27129-27	US-10-228-063-5	US-10-191-715-2	PCT-US02-27129-5	US-09-724-676A-71216	US-09-724-676A-71215	US-09-724-676-71216	US-09-724-676-71215	US-09-724-676A-52313
Sequence 210, App Sequence 8, Appli	5231	Sequence 52314,	Sequence 210, App	Sequence 36, App	Sequence 26, App	Sequence 36, App	Sequence 26, App	Sequence 27, App	Sequence 27, App	Sequence 5, App	Sequence 2, Appli	Sequence 5, App	Sequence 71216,	Sequence 71215,	Sequence 71216,	Sequence 71215,	Sequence 52313,

## ALIGNMENTS

RESULT 2 US-09-134-000C-6100 ; Sequence 6100, Application US/09134000C ; GENERAL INFORMATION: APPLICANT: Lynn Doucette-Stamm et al i APPLICANT: Lynn Doucette-Stamm et al ritle OF INVENTION: ENTERCOCCUS FABCALIS FOR DIAGNOSTICS AND THERAPEUTICS FILE REFERENCE: 03.796-032 ; CURRENT APPLICATION NUMBER: US/09/134,000C ; CURRENT FILING DATE: 1998-08-13 ; PRIOR APPLICATION NUMBER: US 60/055,778 ; PRIOR APPLICATION NUMBER: US 60/055,778 ; PRIOR FILING DATE: 1997-08-15 ; NUMBER OF SEQ ID NO 6100 ; LENGTH: 272 ; TYPE: PRT ; ORGANISM: Enterococcus faecalis US-09-134-000C-6100	Query Match Best Local Similarity 45.5%; Pred. No. 16; Matches 5; Conservative 5; Mismatches 1; Indels 0; Gaps  Qy 1 KOKIKHVVKLK 11	RESULT 1  US-09-134-000C-6100  Sequence 6100, Application US/09134000C  GENERAL INFORMATION:  APPLICANT: Lynn Doucette-Stamm et al  TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS  FILE REFERENCE: 032796-032  CURRENT APPLICATION NUMBER: US/09/134,000C  CURRENT APPLICATION NUMBER: US/09/134,000C  CURRENT FILING DATE: 1998-08-13  PRIOR APPLICATION NUMBER: US 60/055,778  PRIOR FILING DATE: 1997-08-15  NUMBER OF SEQ ID NO 5: 6812  SOFTWARE: PatentIn version 3.1  SEQ ID NO 6100  LENGTH: 272  TYPE: PRT  ORGANISM: Enterococcus faecalis  US-09-134-000C-6100
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                                                                                                                                                                                                                                                                    US-10-092-411A-3195
                                                                                                                                                                                                                                                                                          RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; ORGANISM: Staphylococcus aureus US-09-950-084-6869
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NUMBER OF SEQ ID NOS: 7
SEQ ID NO 6869
LENGTH: 624
TYPE: PRT
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                                                                                                                                                                                                                               Sequence 3195, Application US/10092411A GENERAL INFORMATION:
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Matches 5; Conservative
                                                          APPLICANT: Lynn Doucette-Stamm et al TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS FILE REFERENCE: 032796-101 CURRENT APPLICATION NUMBER: US/10/092,411A CURRENT FILING DATE: 2002-03-07 PRIOR APPLICATION NUMBER: US 09/134,001 PRIOR EPILING DATE: 1998-08-13
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APPLICANT:
                       PRIOR A&PLICATION NUMBER: US 60/064,964 PRIOR \pi(IL\neqNG DATE: 1997-11-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR FILING DATE: 1999-10-14
PRIOR APPLICATION NUMBER: US 09/353,718
PRIOR FILING DATE: 1999-07-14
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APPLICANT: Roberta S. Hare
APPLICANT: Raren J. Shaw
TITLE OF INVENTION: Staphylococcus aureus Related Compositions and Methods
FILE REFERENCE: 1034/1C963US2
CURRENT APPLICATION NUMBER: US/09/950,084
CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: US/09/417,811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: US 09/036,338 PRIOR FILING DATE: 1998-03-06
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OR APPLICATION NUMBER: US 09/266,557
OR FILING DATE: 1999-03-11
OR APPLICATION NUMBER: US 09/266,556
OR FILING DATE: 1999-03-11
OR APPLICATION NUMBER: US 09/266,555
OR APPLICATION NUMBER: US 09/266,552
OR APPLICATION NUMBER: US 09/266,542
                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 63.
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                                                                                                                                                                                                                                                                                                                                                                                          1 KQKIKHVVKLK 11
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APPLICATION NUMBER: US 09/266,541
FILING DATE: 1999-03-11
APPLICATION NUMBER: US 60/055,779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 09/036,720 FILING DATE: 1998-03-06
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Application data removed -
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Pred. No.
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Pred. No.
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No. 16;
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244 KENIEHVVRVK 254

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Sequence 5495, Application US/09134000C
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACI
TITLE OF INVENTION: ENTERCOCCUS FAECALIS FOR
FILE REFERENCE: 032796-032
CURRENT APPLICATION NUMBER: US/09/134,000C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/055,778
PRIOR APPLICATION NUMBER: US 60/055,778
PRIOR FILING DATE: 1997-08-15
NUMBER OF SEQ ID NOS: 6812
SOFTWARE: PAtentin version 3.1
SEQ ID NO 5495
LENGTH: 284
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GENERAL INFORMATION:
GENERAL INF
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                                                                                                                                                                                                ; ORGANISM: Enterococcus faecalis US-09-134-000C-5495
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US-09-134-000C-5495
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LENGTH: 284
TYPE: PRT
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NUMBER OF SEQ ID NOS: 5676
SEQ ID NO 3195
LENGTH: 234
                                                                  Matches
                                                                                                   Best
                                                                                                                             Query Match
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TYPE: PRT
                                                                                                                                                                                                                                                                  TYPE: PRT
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                                                                  Local Similarity hes 6; Conserv
   1 KQKIKHVVKLK 11
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77.8%;
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Pred. No.
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Pred. No.
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Mismatches
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26;
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21;
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                                                                                                                                 Length 284;
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Query Match
Best Local Similarity
Thes 7; Conserv
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; ORGANISM: Homo sapiens US-10-188-832-164
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                                                                                            SOFTWARE: Pa
SEQ ID NO 164
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LENGTH: 1388
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                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/10/188,832 CURRENT FILING DATE: 2002-11-22 PRIOR APPLICATION NUMBER: US 60/302,814 PRIOR FILING DATE: 2001-07-03 PRIOR APPLICATION NUMBER: US 60/310,099 PRIOR FILING DATE: 2001-08-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: US 60/310,099
PRIOR FILING DATE: 2001-08-03
PRIOR APPLICATION NUMBER: US 60/343,705
PRIOR FILING DATE: 2001-11-08
PRIOR APPLICATION NUMBER: US 60/350,666
PRIOR APPLICATION NUMBER: US 60/350,666
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                                                                                                                                                             PRIOR APPLICATION NUMBER: US 60/350,666
PRIOR FILING DATE: 2001-11-13
PRIOR APPLICATION NUMBER: US 60/372,246
PRIOR FILING DATE: 2002-04-12
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TITLE OF INVENTION: Methods of Diagnosis of Bladder Cancer, Compositions
TITLE OF INVENTION: and Methods of Screening for Modulators of Bladder
TITLE OF INVENTION: Cancer
FILE REFERENCE: 018501-002330PC
                                                                                                                             NUMBER OF SEQ ID NOS: 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Eos Biotechnology, Inc.
TITLE OF INVENTION: Methods of Diagnosis of Bladder Cancer, Compositions
TITLE OF INVENTION: and Methods of Screening for Modulators of Bladder
TITLE OF INVENTION: Cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: PCT/US02/21338 CURRENT FILING DATE: 2002-12-04
                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: US 60/343,705 PRIOR FILING DATE: 2001-11-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE REFERENCE: 018501-002330US
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NUMBER OF SEQ ID NOS: 207
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                                               LENGTH: 1
TYPE: PRT
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                                                                                                                     PatentIn Ver. 2.1
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Pred. No. 1.5e+02;
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RESULT 10
US-09-724-676-96355
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Matches
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LENGTH: 188
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                                                        SEQ ID NO 96355
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                                                                      APPLICANT: Compugen LTD TITLE OF INVENTION: Variants of alternative splicing FILE REFERENCE: 129181.4 Compugen CURRENT APPLICATION NUMBER: US/09/724,676 CURRENT FILING DATE: 2000-11-28 NUMBER OF SEQ ID NOS: 97222 SOFTWARE: Patentin version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: George H. Shimer, Jr. APPLICANT: George H. Miller
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NUMBER OF SEQ ID NOS: 7451
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PRIOR APPLICATION NUMBER: US 09/353,718
PRIOR FILING DATE: 1999-07-14
PRIOR APPLICATION NUMBER: US 09/266,557
PRIOR FILING DATE: 1999-03-11
PRIOR APPLICATION NUMBER: US 09/266,556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Karen J. Shaw TITLE OF INVENTION: Staphylococcus aureus Related Compositions and Methods FILE REFERENCE: 1034/109630S2
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ORGANISM: Homo sapiens
                   TYPE: PRT
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                                     LENGTH:
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FILING DATE: 1999-03-11
APPLICATION NUMBER: US 09/266,541
FILING DATE: 1999-03-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1999-03-11
APPLICATION NUMBER: US 09/266,555
FILING DATE: 1999-03-11
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Roberta S. Hare
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70.0%;
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66.7%;
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Pred. No. 1.5e+02;
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RESULT 13
US-09-724-676-96354
US-09-724-676-96354
Sequence 96354, Application US/09724676
GENERAL INFORMATION:
APPLICANT: Compugen LTD
FILE REFERENCE: 129181.4 Compugen
CURRENT: APPLICATION UNBER: US/09/724,676
CURRENT: TILING DATE: 2000-11-28
NUMBER OF 45EQ ID NOS: 97222
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TITLE OF INVENTION: Variants of alternative spiritle REFERENCE: 129181.4 Compugen
CURRENT APPLICATION NUMBER: US/09/724,676A
CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222
SOFTWARE: Patentin version 3.2
SEQ ID NO 96355
LENGTH: 708
TYPE: PAT
ORGANISM: Homo sapiens
US-09-724-676A-96355
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US-09-724-676-96353
Sequence 96353, Application US/09724676
GENERAL INFORMATION:
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Best Local Similarity
Tatches 7; Conserve
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US-09-724-676-96353
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US-09-724-676A-96355
; Sequence 96355, Application US/09724676A
; GENERAL INFORMATION:
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TITLE OF INVENTION: Variants of alternative splicing
FILE REFERENCE: 129181.4 Compugen
CURRENT APPLICATION NUMBER: US/09/724,676
CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222
SOFTWARE: PatentIn version 3.2
SEQ ID NO 96353
LENGTH: 715
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Best Local Similarity
Matches 7; Conserv
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| 127 KIPHVVRLK 135
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127 KIPHVVRLK 135
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Pred. No. 1.1e+02;
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Pred. No. 1.1e+02;
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Pred. No. 1.1e+02;
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SOFTWARE: PatentIn version 3.2

SEQ ID NO 96353

LENGTH: 715

TYPE: PRT

ORGANISM: Homo sapiens
US-09-724-676A-96353
                                                                                                  Search completed: February Job time: 18.5 secs
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Best Local :
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                                                                                                                                                                                                                            Matches
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Best Local Similarity
Matches 7; Conserv
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TYPE: PRT
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127 KIPHVVRLK 135
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77.8%;
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77.8%;
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APPLICANT: Compugen LTD
TITLE OF INVENTION: Variants of alternative splicing
FILE REFERENCE: 129181.4 Compugen
CURRENT APPLICATION NUMBER: US/09/724,676A
CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222
SOFTWARE: Patentin version 3.2
SEQ ID NO 96354
LENGTH: 715
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
APPLICANT: Compugen ITD
TITLE OF INVENTION: Variants of alternative splicing
FILE REFERENCE: 129181.4 Compugen
CURRENT APPLICATION NUMBER: US/09/724,676A
CURRENT FILING DATE: 2000-11-28
Score 35; DB 5;
Pred. No. 1.1e+02;
1; Mismatches 1
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Pred. No. 1.1e+02;
1; Mismatches 1
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Pred. No. 1.1e+02;
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Result
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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/cgn2_6/ptodata/1/iaa/BCTUS_COMB.pep:*
/cgn2_6/ptodata/1/iaa/backfiles1.pep:*
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                US-08-477-831C-38
US-08-477-831C-41
US-08-402-217A-2
US-08-700-178-2
US-08-995-654-2
US-08-995-654-3
US-08-995-654-3
US-08-477-831C-11
US-08-477-831C-2
US-08-477-831C-3195
US-09-134-001C-3195
US-09-134-001C-5259
US-09-134-001C-5396
US-08-08-08-08-98-98-6
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Sequence 38, Ap,
Sequence 41, Api
Sequence 2, Appli
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US-08-477-831C-38
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5144	Sequence 96, Appl	Sequence 17, Appl	Sequence 9, Appli	Sequence 72, Appl	Sequence 53, Appl	Sequence 1, Appli	Sequence 1, Appli	Sequence 7, Appli	Sequence 83, Appl		Sequence 2, Appli	Sequence 2, Appli	Sequence 10, Appl	•	Sequence 10, Appl	Sequence 8, Appli	Sequence 8, Appli

## ALIGNMENTS

GENERAL INFORM
APPLICANT:
APPLICANT:
APPLICANT:

TURLEY, EVA A.
SHUWEN, ZHANG
ENTWISTLE, JOYCELYN
VENTION: HYALURONAN RECEPTOR PROTEIN

INFORMATION

38, Application US/08477831C 5, 6429291

CORRESPONDENCE ADDRESS: TITLE OF INVENTION NUMBER OF SEQUENCES:

ADDRESSEE:

STREET:

NEW YORK NEW YORK

1251 AVENUE OF

THE AMERICAS

FISH & NEAVE

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                                                                                                                             ; DESCRIPTION: US-08-477-831C-38
                                                                               Query Match
Best Local
                                                                Matches
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COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Rel. #1.0, ASC:

CURRENT APPLICATION DATA:
                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-596-900
TELEPAX: 212-596-9090
INFORMATION FOR SEQ ID NO: 38:
                                                                                                                                                              MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                          NAME: PIERRI, MARGARET A. REGISTRATION NUMBER: 30,7 REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/01 FILING DATE: 07-JUN-1995 CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: NEW YORK COUNTRY: U.S.A. ZIP: 10020-1104
                                                             Local Similarity
mes 11; Conserv
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KQKIKHVVKLK 11
                                                             100.0%; ilarity 100.0%; Conservative (
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                                                                                                                                             protein fragment
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                                                             Score 54; DB 4; Pred. No. 0.0039; Mismatches 0
                                                                                             Length 32;
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US-08-477-831C-41

Sequence 4 Patent No.

1, Application US/08477831C 6429291

INFORMATION

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                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local :
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INFORMATION FOR SEQ ID NO:
                                                                                                     TITLE OF INVENTION: HYALURONAN RECEPTOR EXPRESSED IN TITLE OF INVENTION: UMBILICAL VEIN ENDOTHELIAL CELLS NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS: ADDRESS: INCYTE PHARMACEUTICALS, INC.
                                                                                                                                                                                              APPLICANT: Hawkins, Phillip R. APPLICANT: Wilde, Craig G. APPLICANT: Seilhamer, Jeffrey J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: Patentin Rel. #1.0, ASCII CURRENT APPLICATION DATA: APPLICATION UMBER: US/08/477,831C FILING DATE: 07-JUN-1995 CLASSIFICATION: 514
COMPUTER KSADABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 183 amino acids
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MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOCTOBRE: Dates: Pc-DOS/MS-DOS
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CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: TURLEY, EVA A.
APPLICANT: SHUWEN, ZHANG
APPLICANT: ENTWISTLE, JOY
TITLE OF INVENTION: HYALU
                                                                                                                                                                                                                                                                                                                                                                                     166 KQKIKHVVKLK 176
                                   COUNTRY:
                                                          STAZE:
                                                                                      STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: PIERRI, MARGARET A.
REFERENCE/DOCKET NUMBER: SIM-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
Local Similarity 100.0%;
es 11; Conservation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
STRANDEDNESS: sir
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                94304
                                                                   Palo Alto
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                                                                                        3174 Porter Drive
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                                     USA
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ENTWISTLE, JOYCELYN
VENTION: HYALURONAN RECEPTOR PROTEIN
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Pred. No. 0.022;
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TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-402-217A-2
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Patent No. 5783669 5700912
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Best Local Similarity 100.0%;
                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/402,217
FILING DATE: March 10, 1995
ATTORNEY/ACENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0028-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 2,
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              INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Hawkins, Phillip R.
APPLICANT: Wilde, Craig G.
APPLICANT: Seilhamer, Jeffrey J.
TITLE OF INVENTION: HYALURONAN RECEPTOR EXPRESSED IN
TITLE OF INVENTION: UMBILICAL VEIN ENDOTHELIAL CELLS
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 351 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION: TELEPHONE: 415-855-0555
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      318 KQKIKHVVKLK 328
                                                                                                                                                                                                         APPLICATION NUMBER: FILING DATE: August CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                            ZIP:
                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Palo Alto
STATE: CA
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                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: INCLEE Drive
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: FILING DATE: 10-MAR
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                                                                                                                                                                                                                                                                                                                                                                           94304
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                                   415-845-4166
                                                                                                                                                                                                                                                                                                                                                                                             USA
                                                                                                                                                                                                                                                                                  PatentIn Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
Patentin Release #1.0, Version #1.30
                                                                                                                                                                                                      August 20, 1996
ON: 435
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                                                                                         Query Match
Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Patent No. 6025138
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Hawkins, Phillip R.
APPLICANT: Wilde, Craig
APPLICANT: Seilhamer, Jeffrey
                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
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                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO:
                                                                                                                                               TYPE: amino acid
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: PF
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
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SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/995,654
FILING DATE: December 22, 1997
                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 08/402,217 FILING DATE: March 10, 1995 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 08/700,178
FILING DATE: August 20, 1996
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc
STREET: 3174 Porter Dr.
                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
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MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: HYALURONAN RECEPTOR EXPRESSED IN HUMAN TITLE OF INVENTION: UMBILICAL VEIN ENDOTHELIAL CELS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM Compatible
OPERATING SYSTEM: Window.
SOFTWARE: FastSEQ for Wil
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                                                                                                                                                                                                                                                                                                                                                                  NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
                                                                                       Local
                                                                                                                                                                                                                                                                                               TELEFAX: 650-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 435
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                                1 KOKIKHVVKLK 11
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                                                                   h 100.0%; Score 54; DB 3; Length 351; Similarity 100.0%; Pred. No. 0.043; 11; Conservative 0; Mismatches 0; Indels
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RESULT 6

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; MOLECULE TYPE: prot
; IMMEDIATE SOURCE:
; LIBRARY: mouse
; CLONE: GI 53979
US-08-402-217A-3
                                                                                                                                                                                                                                                                                                        RESULT 7
US-08-700-178-3
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                                                                                                                                                                                                                                                   Sequence 3, Application US/08700178 Patent No. 5783669 Patent No. 5783669 5700912
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                  GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
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                                                                                                                                                                        APPLICANT: Hawkins, Phillip R. APPLICANT: Wilde, Craig G. APPLICANT: Seilhamer, Jeffrey J.
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CORRESPONDENCE ADDRESS:
                                                                                                                                          TITLE OF INVENTION: HYALURONAN RECEPTOR EXPRESSED IN TITLE OF INVENTION: UMBILICAL VEIN ENDOTHELIAL CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION: NAME: Luther, Barbara J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: HYALURONAN RECEPTOR EXPRESSED IN HUMAN TITLE OF INVENTION: UMBILICAL VEIN ENDOTHELIAL CELLS
                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                           NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                 402 KOKIKHVVKLK 412
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                                              STREET: 3174 POI
CITY: Palo Alto
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REGISTRATION NUMBER: 333
REFERENCE/DOCKET NUMBER:
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CITY: Palo Alto
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TOPOLOGY: 11
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COUNTRY: U
ZIP: 94304
                                   STATE: CA
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                                                                                      ADDRESSEE:
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                                                                   3174 Porter Drive
                  USA
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                                                                                        INCYTE PHARMACEUTICALS, INC
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100.0%; F
htive 0;
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Pred. No.
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Patent No. 6025138
GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 477 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Billings, Lucy J.
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/402,217
FILING DATE: March 10, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
APPLICATION NUMBER: 08/700,178
FILING DATE: August 20, 1996
PRIOR APPLICATION NUMBER: 08/402,217
FILING DATE: March 10, 1995
                                                                                                                                                                                    COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOUTWARE: PastEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Wilde, Craig
APPLICANT: Seilhamer, Jeffrey
TITLE OF INVENTION: HYALURONAN RECEPTOR EXPRESSED IN HUMAN
TITLE OF INVENTION: UMBILICAL VEIN ENDOTHELIAL CELS
NUMBER OF SEQUENCES: 3
                                                                                                     CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
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LIBRARY: mouse
CLONE: GI 53979
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             402 KOKIKHVVKLK 412
                                                                                                                                                                                                                                                                                                                                                 STREET: 3174 POI
CITY: Palo Alto
STATE: CA
                                                                                                                                            APPLICATION NUMBER: US/08/995,654 FILING DATE: December 22, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     y Match 100.0%; Score 54;
Local Similarity 100.0%; Pred. No.
nes 11; Conservative 0; Mismatch
                                                                                                                                                                                                                                                                                                                              COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: August 20, 1996
CLASSIFICATION: 435
IOR APPLICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Incyte Pharmaceuticals, Inc
STREET: 3174 Porter Dr.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRANDEDNESS:
TOPOLOGY: 11
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                                                                                                                                                                                                                                                                                                            94304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hawkins, Phillip R.
                                                                                                                                                                                                                                                                                                                              USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein
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Query Match
Best Local Similarity
Watches 11; Conserva
                                                                                  US-08-477-831C-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                               COUNTRY: U.S.A.
ZIP: 10020-1104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Rel. #1.0, ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,831C
FILING DATE: 07-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: TURLEY, EVA A.
APPLICANT: SHUMEN, ZHANG
APPLICANT: ENTWLSTLE, JOYCELYN
TITLE OF INVENTION: HYALURONAN RECEPTOR PROTEIN
                                                                                                                                                                                                                  TELEPHONE: 212-596-901
TELEFAX: 212-596-9090
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: PIERRI, MARGARET A.
REGISTRATION NUMBER: 30,709
REFERENCE/DOCKET NUMBER: SIM-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 477 amino acids
                                                                                                 MOLECULE TYPE:
DESCRIPTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: BILLINGS, LUCY J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-
                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
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                                                                                                                                                STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: NEW YORK
STATE: NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET:
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                                                                                                                                  TOPOLOGY:
                                                                                                                                                                                  LENGTH:
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                                                                                                                                                                 amino acid
                                                                                                                                                                                  606 amino acids
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                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                    linear
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linear
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/desc = "RHAMM I protein"
                                                                                                                                              single
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                 Score 54; DB 4; Length 606; Pred. No. 0.074; ); Mismatches 0; Indels
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US-08-477-831C-40
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US-08-477-831C-11
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                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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                                                                                                                                                                                                              Patent No. 6429291
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-LOS/MS-DOS
SOFTWARE: Patentin Rel. #1.0, ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,831C
FILING DATE: 07-UN-1955
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent No.
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INFORMATION FOR SEQ ID NO: 11:
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                                                                                       CORRESPONDENCE ADDRESS:
ADDRESSEE: FISH & NEAVE
                                                                                                                                    APPLICANT: TURLEY, EVA A.
APPLICANT: SHUWEN, ZHANG
APPLICANT: ENTWISTLE, JOYCELYN
TITLE OF INVENTION: HYALURONAN RECEPTOR PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE:
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LENGTH: 631 amino acids
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NAME: PIERRI, MARGARET A.
REGISTRATION UNMBER: 30,7
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION:
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APPLICANT: ENTWISTLE, JOYCELYN
TITLE OF INVENTION: HYALURONAN RECEPTOR PROTEIN
                                                                                                                        NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                           556 KQKIKHVVKLK 566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: NEW YORK STATE: NEW YORK COUNTRY: U.S.A. ZIP: 10020-1104
                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
STATE: NEW YORK COUNTRY: U.S.A. ZIP: 10020-1104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DESCRIPTION: /desc = "RHAMM I-2a"
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                                                     CITY: NEW YORK
                                                                      STREET:
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                                                                    1251 AVENUE OF THE AMERICAS
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1251 AVENUE OF THE AMERICAS
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                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         single
                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%; Score 54; DB 4; Length 631; 100.0%; Pred. No. 0.077;
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US-08-477-831C-39
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Best Local S
Matches 10
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                TELEFAX: 212-596-9090 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                  COMPUTER FRADABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC pDS/MS-DOS
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                                                                              REGISTRATION NUMBER: 30,709
REFERENCE/DOCKET NUMBER: SI
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-596-9000
TELEFAX: 212-596-9090
                                                                                                                                                               APPLICATION NUMBER: US/08
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: PIERRI, MARGARET A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: TURLEY, EVA A.
APPLICANT: SHUWEN, ZHANG
APPLICANT: ENTWISTLE, JOYCELYN
TITLE OF INVENTION: HYALURONAN RECEPTOR PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE:
DESCRIPTION:
                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                     SOFTWARE: Patentin Rel. #1.0, ASCII CURRENT APPLICATION DATA:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-596-9000
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                                                                                                                                                                                                                                                                                                                                                                                      STREET: 1251 AVENCITY: NEW YORK
STATE: NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         166 KOKIRHVVKLK 176
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                             COUNTRY: U.S.A. ZIP: 10020-1104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 07
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
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STRANDEDNESS:
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                            LENGTH:
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10; Conserv
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6429291
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                          32 amino acids
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N: 514
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                                                                                                                                    SIM-10
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US-09-572-191-2
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; DESCRIPTION: /desc = protein fragment
US-08-477-831C-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 14
US-09-572-191-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; ORGANISM: Staphylococcus epidermidis US-09-134-001C-3195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 13
US-09-134-001C-3195
                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/572,191
CURRENT FILING DATE: 2000-05-17
NUMBER OF SEQ ID NOS: 6
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2
LENGTH: 1388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: LYNN DOUGETC-Stamm et al
APPLICANT: LYNN DOUGETC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
TITLE OF INVENTION: MUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
TITLE OF INVENTION: EPIDERWIDIS FOR DIAGNOSTICS AND THERAPEUTICS
TITLE OF INVENTION:
EPIDERWIDIS FOR DIAGNOSTICS AND THERAPEUTICS
TITLE OF INVENTION NUMBER: US/09/134,001C
CURRENT FILING DATE: 1990-08-13
PRIOR APPLICATION NUMBER: US 60/064,964
PRIOR FILING DATE: 1997-11-08
PRIOR FILING DATE: 1997-08-14
NUMBER OF SEQ ID NOS: 5674

BEOGRAPHICATION ONS: 5674

BEOGRAPHICATION NUMBER: US 60/055,779

PRIOR FILING DATE: 1997-08-14
NUMBER OF SEQ ID NOS: 5674

BEOGRAPHICATION NUMBER: US 60/055,779
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Best Local Similarity bi...
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Matches 7; Conserv
                                                                                                     Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 2, Application US/09572191 Patent No. 6355466
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Patent No. 6380370
                                                                                                                                                                                                                                                                                                         APPLICANT: Beraud, Christophe
APPLICANT: Sakowicz, Roman
APPLICANT: Wood, Kenneth
TITLE OF INVENTION: No. 6355466el motor proteins and methods for
TITLE OF INVENTION: their use
                                                                                                                                                                                                                                                                                                       FILE REFERENCE:
                                                                                                                                                                               TYPE: PRT
210 KPKMKHVVK 218
                                   2 OKİKHVVKLK 11
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                                                                                    70.0%;
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77.88;
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SEQ ID NO 2
LENGTH: 1388
TYPE: PRT
ORGANISM: Human
US-09-723-262-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 2, Application US/09723262 Patent No. 6379912 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                        APPLICANT: Beraud, Christophe
APPLICANT: Sakowicz, Roman
APPLICANT: Wood, Kenneth
TITLE OF INVENTION: No. 6379912el motor proteins and methods for
TITLE OF INVENTION: their use
FILE REFERENCE: 1017
CURRENT APPLICATION NUMBER: US/09/723,262
CURRENT FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: US 09/572,191
PRIOR APPLICATION NUMBER: US 09/572,191
PRIOR APPLICATION NUMBER: US 09/572,191
                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS:
1351 QKIQYVVRLK 1360
                 2 QKIKHVVKLK 11
                                                                         Conservative
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                                                                     Score 36; DB 4; Le
Pred. No. 2.1e+02;
3; Mismatches 0;
                                                                                                           DB 4; Length 1388;
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                                                                       Gaps
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OM protein - protein search, using sw model Run on: February 8, GenCore version 5.1.3 Copyright (c) 1993 - 2003 Compugen Ltd. 2003, 10:39:10 ; Search time 12 Seconds (without alignments) 80:112 Million cell updates/sec

Sequence: Title: Perfect score: 1 KLKSQLVKRK 10 US-09-685-010-31 46

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 283224 seqs, 96134422 residues

283224

Minimum DB Maximum DB seq seq length: 0 length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database 4321 PIR\_73:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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## ALIGNMENTS

A; Molecule type: mRNA '	A;Accession: A42925 A:Status: preliminary	A;Contents: erratum	J. Cell Biol. 118, 753, 1992	R; Hardwick, C.	A; Experimental source: 3T3 fibroblast	A;Cross-references: EMBL:X64550	A; Residues: 1-631 < ENT>	A; Molecule type: mRNA	A; Accession: JC4298	A; Reference number: JC4298; MUID: 96011639; PMID: 7500272	1; Title: Characterization of the murine gene encoding the	Gene 163, 233-238, 1995	R; Entwistle, J.; Zhang, S.; Yang, B.; Wong, C. I.; O. u.)	C; Accession: JC4298; A42925; A41923; S21586	C; Date: 16-Nov-1995 #sequence revision 08-Feb-1996 #tevt chance of the con-	C;Species: Mus musculus (house mouse)	hyaluronan receptor - mouse	JC4298	RESULT 1
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A;Residues: 155-376,'S',378-504,'E',506-631 <HAR> A;Cross-references: GB:X64550

A;Note: authors translated the codon AGT for residue 377 as Thr and CTA for residue 507 & R;Hardwick, C.; Hoare, K.; Owens, R.; Hohn, H.P.; Hook, M.; Moore, D.; Cripps, V.; Auster J. Cell Biol. 117, 1343-1350, 1992

A;Title: Molecular cloning of a novel hyaluronan receptor that mediates tumor cell motil:

A;Reference number: A41923; MUID:92299690; PMID:1376732

A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 155-376,'S',378-504,'E',506-507,'L',508-630 <HA2>
A;Cross-references: GB:X64550
A;Note: this sequence has been corrected in reference A42925
C;Comment: This protein regulates cell motility and transformation, and focal adhesion di

A;Gene: rhamm
A;Gene: rhamm
A;Gene: rhamm
A;Introns: 20/3; 54/2; 79/2; 137/3; 187/3; 259/2; 382/2; 431/2; 482/2; 515/3; 574/3; 625/C;Superfamily: hyaluronan receptor
C;Keywords: glycoprotein; receptor
F;260-382/Region: 21 residue repeats
F;516-574/Region: 21 residue repeats
F;516-574/Region: hyaluronan binding #status predicted
F;575-625/Region: hyaluronan binding #status predicted
F;515-625/Region: hyaluronan binding #status predicted
F;116,283,304,325,346,367,398,438,619/Binding site: carbohydrate (Asn) (covalent) #status

93.5%; Score 43; DB 2; 90.0%; Pred. No. 1; Length 631;

Query Match Best Local Similarity 90.v Mismatches , , Indels

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C;Accession: T30161

R;Le, T.T.; Kemp, K.; Scheet, P.
submitted to the EMBL Data Library, April 1997

A;Description: The sequence of C. elegans cosmid C37A2.
A;Reference number: Z20746

A;Accession: T30161

A;Status: preliminary; translated from GB/EMBL/DDBJ

A;Molecule type: DNA

A;Residues: 1-336 < LET>
A;Cross-references: EMBL:U97194; PIDN:AAB52452.1; GSPDB:GN00019; CESP:C37A2.
A;Experimental source: strain Bristol N2; clone C37A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Reference number: A86625; MUID:21235186; PMID:11337471
A;Accession: A86657
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C;Species: Lactococcus lactis subsp. lactis
C;Date: 23-Mar-2001 #sequence_revision 23-Mar-2001 #text_change 11-Jan-2002
C;Accession: A86657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Pathway: gluconeogenesis
C;Superfamily: Bacillus subtilis fructose-bisphosphatase; phosphoesterase core homology
C;Keywords: carbohydrate metabolism; gluconeogenesis; metalloprotein; phosphoric monoes
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aldehyde reductase (EC 1.1.1.21) - rabbit (fragment) (Species: Oryctolagus cuniculus (domestic rabbit) C; Pate: 22-Jun-1990 #sequence_revision 22-Jun-1990 #t C; Accesejion: A34406 R; Garcia-Perez, A.; Martin, B.; Murphy, H.R.; Uchida, J. Biol, Cham. 264, 16815-16821, 1989
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A;Experimental source: strain IL1403
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A; Residues: 1-640 <STO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 hypothetical protein C37A2.8 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #t
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Introns: 42/3; 77/3; 198/1; 264/1; 295/3
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7; Conserv
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70.0%;
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Pred. No.
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                                                                  22-Jun-1990 #text_change 11-Jun-1999
                           H.R.; Uchida, S.; Murer,
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                              H.; Cowley Jr.,
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RESULT 5
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A;Title: A superfamily of NADPH-dependent reductases in eukaryotes and prokaryotes.
A;Reference number: A60603; MUID:90005742; PMID:2507340
A;Accession: A60603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Rattus norvegicus (Norway rat)
C;Date: 20-Apr-2000 #sequence revision 20-Ap
C;Accession: A60603; S00079; E60603; I53649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references: GB:J05048; NID:g164756; PIDN:AAA31157.1; C;Superfamily: aldehyde reductase C;Keywords: oxidoreductase
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A;Accession: A34406
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: protein
A; Roelcule type: protein
A; Residues: 34-60, 'XXX', 92-108,146-173,204-231,244-252,276-294 <CR3>
A; Roesidues: 34-60, 'XXX', 92-108,146-173,204-231,244-252,276-294 <CR3>
A; Rote: part of this sequence was confirmed by protein sequencing
R; Graham, C.E.; Szpirer, C.; Levan, G.; Carper, D.
Gene 107, 259-267, 1991
A; Title: Characterization of the aldose reductase-encoding gene fami.
A; Reference number: 153649; MUID:92084118; PMID:1748296
A; Accession: 153649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R;Carper, D.; Nishimura, C.; Shinohara, T.; Dietzchold, B.; FEBS Lett. 220, 209-213, 1987
A;Title: Aldose reductase and rho-crystallin belong to the A;Reference number: S00079; MUID:87276556; PMID:3111886
A;Accession: S00079
                                                                                                                                                                                                                                                                   A;Cross-references: GB:M60322; NID:g202851; PIDN:AAA40721.1; PID:g202852 C;Comment: Aldose reductase catalyzes reduction of a variety of sugars to sugar alcohols C;Comment: This enzyme is active in the eye lens, where an accumulation of sugar alcohol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Molecule type: mRNA
A;Residues: 33-316 <CA2>
A;Cross-references: EMBL:X05884
A;Note: 45-Ser and 54-Trp were also
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A; Residues: 1-302 < GAR >
                                                                                                                                          C;Superfamily: aldehyde reductase
C;Keywords: eye lens; NADP; oxidoreductase
F;263/Active site: Lys #status predicted
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                                                                                                                                                                                                                        A; Introns:
                                                                                                                                                                                                                                               C; Genetics:
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                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: DNA
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KLKSQLVKRK 10
                                                                                                                                                                                                                  22/3; 78/3; 117/3; 143/3; 184/3; 220/2; 247/3; 275/3; 303/2
                                                                        Similarity
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hypothetical protein BBH39 - Lyme disease spirochete plasmid H/lp28-3 C;Species: Borrelia burgdorferi (Lyme disease spirochete) C;Date: 13-Feb-1998 #sequence_revision 13-Feb-1998 #text_change 08-Oct-1999 C;Accession: E70239
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A;Residues: 94-174,'N',176-177,'D',179-181,'DRKPVVYSCYRPSWSPSQRRCIKHTSDKLIKGFLHLFKNLFV'
A;Cross-references: EMBL:D89260, NID:G1749727; PIDN:BAA13921.1; PID:G1749728
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R;Wood, V.; Rajandream, M.A.; Barrell, B.G.; Bothe, G.; Pohl, T. submitted to the EMBL Data Library, December 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C;Species: Schizosaccharomyces pombe
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999
C;Accession: T40898; T43185
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A;Title: Presence of a closely related subgroup in the aldo-ketoreductase family of the A;Reference number: I49484; MUID:95154325; PMID:7851421
A;Accession: I49484
A;Status: preliminary; translated from GB/EMBL/DDBJ
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C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 21-Jul-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA Res. 4, 363-369, 1997
A;Title: Identification of open reading frames in Schizosaccharomyces
A;Reference number: Z17323; MUID:98162722; PMID:9501991
A;Accession: T43185
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A;Experimental source: strain 972h-; cosmid c1259
R;Yoshioka, S.; Kato, K.; Nakai, K.; Okayama, H.; Nojima, H.
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A;Residues: 1-456 <WOO>
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A; Accession: T40898
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                                                                                                                     RESULT 8
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ily: pyruvate dehydrogenase complex protein X; lipoyl/biotin-binding homology
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8; Conserv
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Query Match
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Mature 388, 539-547, 1997 ....; weldman, J.M.; Pujii, C.; Bowman, C.; Watthey, A; Authors: Wallin, E.; Hayes, W.S.; Borodovsky, M.; Karpk, P.D.; Smith, H.O.; Fraser, A; Reference complete genome sequence of the gastric pathogen Helicobacter pylori. A; Reference number: A64520; MUID:97394467; PMID:9252185
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                                                                                                                                                                             R.Tomb, J.F.; White, O.; Kerlavage, A.R.; Clayton, R.A.; Sutton, G.G.; Fleischmann, R.D. Peterson, S.; Loftus, B.; Richardson, D.; Dodson, R.; Khalak, H.G.; Glodek, A.; McKenney son, J.D.; Kelley, J.M.; Cotton, M.D.; Weidman, J.M.; Fujii, C.; Bowman, C.; Watthey, L. Nature 388, 539-547, 1997

A; Authors: Wallin, B.; Hayes, W.S.; Borodovsky, M.; Karpk, P.D.; Smith, H.O.; Fraser, C.P.
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A;Title: Genomic sequence of a Lyme disease spirochaete,
A;Reference number: A70100; MUID:98065943; PMID:9403685
A;Accession: E70239
A;Status: preliminary; nucleic acid sequence not shown;
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                        A; Molecule type: DNA
A; Residues: 1-362 < TOM >
                                                                                                                                                                                                                                                                                                             M-protein - Helicobacter pylori (strain 26695)
C;Species: Helicobacter pylori
C;Species: Helicobacter pylori
C;Date: 30-Jan-1998 #sequence_revision 30-Jan-1998 #text_change 30-Jan-1998
C;Accession: B64527
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A;Experimental source: strain Madrid E
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A; Residues: 1-306 < AND>
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                                                                         A; Status: preliminary; nucleic
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GB:AE000511; TIGR:HP0058
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RESULT 13
GNHUER
                                                           retrovirus-related pol polyprotein pseudogene - human N;Contains: endonuclease (EC 3.1.-.-); RNA-directed DNA polymerase (EC 2.7. C;Species: Homo sapiens (man) C;Date: 28-Dec-1987 #sequence_revision 04-Jan-1996 #text_change 14-May-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                         R; anonymous, Genoscope submitted to the EMBL Data Library, July 1999 A; Description: Pyrococcus abyssi genome sequence: A; Reference number: A75001 A; Accession: D75112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORF MSV162 probable NAD+ dependent DNA ligase - Melanoplus sanguinipes entomopoxvirus C;Species: Melanoplus sanguinipes entomopoxvirus C;Date: 21-Jan-2000 #sequence_revision 21-Jan-2000 #text_change 21-Jul-2000 C;Accession: T28323 R;Afonso, C.L.; Tulman, E.R.; Lu, Z.; Oma, E.; Kutish, G.F.; Rock, D.L. J. Virol. 73, 533-52, 1999
A;Title: The genome of Melanoplus sanguinipes entomopoxvirus.
A;Reference number: Z20484; MUID:99102612; PMID:9847359
A;Accession: T28323
                  R;Ono, K.; Yasunaga, T.; Mi
J. Virol. 60, 589-598, 1986
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C;Species: Pyrococcus abyssi
C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999
                                                   C;Accession: D24483
                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: GB:AJ248285; GB:AL096836; NID:g5458067; PIDN:CAB49613.1; PID:e15155
A;Experimental source: strain Orsay
                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: DNA
A; Residues: 1-633 < KAW>
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A; Residues: 1-522 < AFO>
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2; Mismatches
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                  A;Cross-references: SGD:S0002330; MIPS:YDL171c
                                                                                                                A; Reference number: A; Accession: S67723
                                                                                                                                              submitted to the Protein Sequence
                                                                                                                                                               R; Pohl,
                                                                                                                                                                                                A; Molecule type: DNA
A; Residues: 1-2145 < POH>
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                                                                                                                                                                                                                                              A; Reference number: S61010
                                                                                                                                                                                                                                                               submitted to the EMBL Data
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77.8%;
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A;Status: preliminary
A;Molecule type: mRNA
A;Residucale: 1-1785 <DEL>
A;Cross-references: GB:M34947; NID:g160597; PID:g160598
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A;Title: Molecular cloning and sequence analysis of the gene A;Reference number: A45546; MUID:91218805; PMID:2090945
A;Accession: A45546
                                           A;Cross-references: EMBL:Z67750; NID:g1061256; PIDN:CAA91574.1; PID:g1061267
                                                                                                                                                                                                                        C;Date: 15-Feb-1996 #sequence_revision C;Accession: S61041; S67723
                                                                                                                                                                                                                                                                       glutamate synthase (NADH2) (EC 1.4.1.14) glt1 precursor N;Alternate names: protein D1448; protein YDL171c C;Species: Saccharomyces cerevisiae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          major merozoite surface antigen precursor - Plasmodium chabaudi C;Species: Plasmodium chabaudi chabaudi chabaudi C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change C;Accession: A45546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C;Keywords: endonuclease; hydrolase; nucleotidyltransferase; polyprotein; F;36-250/Domain: RNA-directed DNA polymerase <REV> F;585-764/Domain: endonuclease <END>
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A;Accession: D24483
                                                                                                                                                                       Library,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             surface antigen
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Database,
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Pred. No. 1.9e+02;
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A;Map position: 4L
C;Superfamily: glutamate synthase (NADH)
C;Keywords: 3Fe-45; metalloprotein; oxidoreductase; transmembrane protein
F;1-53/Domain: propeptide #status predicted <PRO>
F;54-2145/Product: glutamate synthase #status predicted <MAT>
F;1077-1093/Domain: transmembrane #status predicted <MMT>
F;1172-1188/Domain: transmembrane #status predicted <MMT>
F;1072-1093/Domain: transmembrane #status predicted <MMT>
F;
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Result
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Perfect score:
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seq length: 2000000000
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Match Length DB
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(c) 1993 - 2003 Compugen Ltd.
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P07943 rattus norv
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P28620 bacillus st
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O12080 saccharomyc
P15121 homo sapien
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P08483 rattus norv
P41984 bos taurus
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To; CHARACTERIZATION. MEDLINE=94308286: PubMed=7518470:	J. Cell Biol. 117:1343-1350(1992).	ng of a novel hyal		PubMed=1376732;	STRAIN=BALB/c;	SEQUENCE OF 318-794 FROM N.A., AND CHARACTERIZATION.	Gene 163:233-238(1995).	A. ";	erization of the murine	:	Word C I i O Hall		SEOUENCE OF 164-794 FROM N.A., AND ALTERNATIVE SPLICING.	Gene 225:41-50(1999).	[HABP.";	ine gene encoding the intracel		MEDLINE=99107769: PubMed=9889313:	SEQUENCE OF 1-183 FROM N.A., AND TISSUE SPECIFICITY.		tted (JUL-1998	Zhao Y., Zhang S., Turley E.;		7. Cell Sci. 111:1673-1684(1998).		ation of IHABP, a 95	O. Ponta H., Herrlich P.;	uuemaag oroeena	TISSUE FUNG;	SEQUENCE FROM N.A., AND SUBCELLULAR LOCATION.			Mammalia: Eutheria: Rodentia: Sciurognathi: Muridae: Murinae: Mus.	Chardata Crassiata Vortabrata	IHABP OR RHAMM.	tiry receptor (increceitate ayataronic actor for hyaluronan-mediated motility).	(Rel. 39, Last	01-OCT-1996 (Rel. 34, Created)	OOO547:	MOUSE

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Cell 95:591-59
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MEDLINE=9825522; PubMed=9556628;
Zhang S., Chang M.C., Zylka D., Turley S.
"The hyaluronan receptor RHAMM regulates
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IL; AF03193; AAC12655.1; -..
IL; AF031932; AAD08670.1; -..
IL; AJ005912; CAA06768.1; JOINED.
JL; AJ005922; CAA06768.1; JOINED.
JL; AJ005922; CAA06768.1; JOINED.
JL; AJ005922; CAA06768.1; JOINED.
JL; AJ005923; CAA06768.1; JOINED.
BL; AJ005924; CAA06768.1; JOINED.
BL; AJ005924; CAA06768.1; JOINED.
BL; X64550; CAA45849.1; -..
BL; X64550; CAA45849.1; -..
BL; X64550; CAA45849.1; -..
D; MGI:104667; Hmmr.
aluronic acid; Alternative splicing
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SUBUNIT: SUBUNIT OF THE HARC COMPLEX.
SUBCELLULAR LOCATION: CELL SUPFACE AND CYTOPLASMIC.
ALTERNATIVE PRODUCTS: 2 ISOFORMS; RHAMMIY4 (SHOWN FRHAMMI; ARE PRODUCED BY ALTERNATIVE SPLICING.
TISSUE SPECIFICITY: UBIQUITOUSLY EXPRESSED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FUNCTION: INVOLVED IN CELL MOTILITY. WHEN HYALURONA HAME, THE PHOSPHORYLATION OF A NUMBER OF PROTEINS, FOCAL ADHESION KIMASE OCCURS. MAY ALSO BE INVOLVED TRANSFORMATION AND METASTASIS FORMATION, AND IN REG
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. 126:575-588(1994).
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NEAR PERFECT TANDEM REPEATS.
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RESULT 3
ALDR_MOUSE
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Hyaluronic acid; Repeat; Glyc
DOWAIN 420 430
DOWAIN 422 451
CARBOHYD 262 262
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CARBOHYD 483 483
SEQUENCE 498 AA; 57858 MW;
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P97779;
30-MAY-2000
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SEQUENCE
ALDR MOUSE STANDARD;
P45376;
01-NOV-1995 (Rel. 32, Created)
                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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30-MAY-2000 (Rel. 39, Last sequence update)
30-MAY-2000 (Rel. 39, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation update)
Hyaluronan mediated motility receptor (Intracellular hyaluronic acid binding protein) (Receptor for hyaluronan-mediated motility).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=10116;
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                                                                                                    1 KLKSQLVKRK 10
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SUBCELLULAR LOCATION: CELL SURFACE AND CYTOPLASMIC
                                                                                                                                                                                                                                                                                                                                                               SIMILARITY)
                                                                                KLRSQLAKKK 451
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HYALURONIC ACID-BINDING
N-LINKED (GLCNAC. . .)
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PROSITE;
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                                                                                                        SEQUENCE
                                                                                                                                                                                                                                        MGD, MGI:1353494; Akr1bl.
InterPro; IPR001395; Aldo/ket_r.
Pfam; PF00248; aldo ket_red; 1.
PRINTS; PR00069; ALDKETRDTASE.
                                                                                                                                                                                                                                                                                                PMMA-2DPAGE; P45376;
                                                                                                                                                                                                                                                                                                            SWISS-2DPAGE; P45376; MOUSE
                                                                                                                                                                                                                                                                                                                          EMBL; D32250; BAA06980.1; -.
EMBL; L39795; AAA62176.1; -.
EMBL; U29152; AAA69958.1; -.
HSSP; P15121; 2ACQ.
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use by non-profit institutions as long as its content
modified and this statement is not removed. Usage by an
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (JUN-1995) to the EMBL/GenBank/DDBJ databases -i- FUNCTION: CATALYZES THE NADPH-DEPENDENT REDUCTION OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN=CD-1; TISSUE=K10
Daoudal S., Berger M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Iwata T., Carper D.;
Submitted (MAR-1995) to the EMBL/GenBank/DDBJ
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Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus (Mouse)
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15-JUN-2002 (Rel.
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61
                         μ.
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SUBCELLULAR LOCATION: Cytoplasmic.
SUBCELLULAR LOCATION: Cytoplasmic.
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CATALYTIC ACTIVITY: Alditol + NAD(P)(+) = aldose + NAD(P)H.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUBUNIT: MONOMER.
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                       KLKSQLVKRK 10
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7; Conserv
                                                                                                                                                         PD000288; Aldo/ket_red; 1.
; PS00062; ALDOKETO_REDUCTASE_2; 1.
; PS00063; ALDOKETO_REDUCTASE_3; 1.
; PS00798; ALDOKETO_REDUCTASE_1; 1.
; PS00798; ALDOKETO_REDUCTASE_1; 1.
ductase; NADP; Acetylation; Multigene family.
iT 0 0 BY SIMILARITY.
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315 AA;
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TISSUE=Kidney;
Parrer M., Pailhoux E., Tournaire
                                                    Conservative
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. 41, Last annotation update)
(EC 1.1.1.21) (AR) (Aldehyde
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70.0%;
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                                                                                                        607E604FF432580E CRC64;
                                                    Mismatches
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               EMBL; U13694; AAB60687.1; JOINED. EMBL; U13689; AAB60687.1; JOINED. EMBL; U13691; AAB60687.1; JOINED. EMBL; U13691; AAB60687.1; JOINED. EMBL; U13692; AAB60687.1; JOINED. EMBL; U13692; AAB60687.1; JOINED. EMBL; U13693; AAB60687.1; JOINED. EMBL; U13693; AAB60687.1; JOINED. EMBL; U13613; AAA31160.1; -.. EMBL; U12316; AAAA31157.1; -.. EMBL; U12316; AAAA31157.1; -.. PIK; A34406.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Garcia-Perez A., Martin B., Murphy H.R., Uchida S., Cowley B.D. Jr., Handler J.S., Burg M.B.; "Molecular cloning of cDNA coding for kidney aldose
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Cr
Mammalia; Eutheria; Lagomorpha;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oryctolagus cuniculus (Rabbit).
Eukaryota; Metazoa; Chordata; C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Proc. Natl. Acad. Sci. U.S.A. 91:10742-10746(1994).
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                                                                                                                                                                                                                                                SSP; P15121; ZALV.
nterPro; IPR001395; Aldo/ket_red; I.
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FUNCTION: CAPALYZES THE NADPH-DEPENDENT REDUCTION OF A WIDE VARIETY OF CARBONYL-CONTAINING COMPOUNDS TO THEIR CORRESPOND ALCOHOLS WITH A BROAD RANGE OF CATALYTIC EFFICIENCIES.

CATALYTIC ACTIVITY: Alditol + NAD(P)(+) = aldose + NAD(P)H.

SUBCULIULAR LOCATION: Cytoplasmic.
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                     ACETYLATION (BY SIMILARITY).
HYDROGEN-BOND DONOR (BY SIMILARITY)
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64D53E6AC0853FFB CRC64;
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(Aldehyde
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                                                                                                                               This SWISS-PROT entry is copyright. It is produced through a collab between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions the European Bioinformatics Institute as long as its content is in
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"Long-term induction of an aldose reductase protein by basic
fibroblast growth factor in rat astrocytes in vittro.";

Electrophoresis 16:1240-1250(1995).

-I- FUNCTION: CATALYZES THE NADPH-DEPENDENT REDUCTION OF A WIDE
VARIETY OF CARBONYI-CONTAINING COMPOUNDS TO THEIR CORRESPONDING
ALCOHOLS WITH A BROAD RANGE OF CATALYTIC EFFICIENCIES.

-I- CATALYTIC ACTIVITY: Alditol + NAD(P)(+) = aldose + NAD(P)H.
                                                 EMBL; X05884; CAA29308.1; -. EMBL; M60322; AAA40721.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TISSUE=Astrocytes;
MEDLINE=96007949; PubMed=7498172;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
MEDLINE-92084118; PubMed=1748296;
Graham C.E., Szpirer C., Levan G.,
"Characterization of the aldose re
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Carper D., Nishimura C., Shinohara T., Dietzchold Craft C., Kador P., Kinoshita J.H.;
"Aldose reductase and p-crystallin belong to the superfamily as aldehyde reductase.";
FEBS Lett. 220:209-213(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-AUG-1988 (Rel. 08, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Aldose reductase (EC 1.1.1.21) (AR) (Aldehyde
AKR1B1 OR ALDR1.
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P07943;
                                 PIR; S00079; S00079.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gene 107:259-267(1991).
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MEDLINE-87276556; PubMed-3111886;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rattus norvegicus (Rat).
                  HSSP; P15121;
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                                                                                               European Bioinformatics Institute. The by non-profit institutions as long ified and this statement is not removed. Ities requires a license agreement (See send an email to license@isb-sib.ch).
                                                                                                                                                                                                                       SUBCULIT: MONOMER.

SUBCELLULAR LOCATION: Cytoplasmic.

SUBCELLULAR LOCATION: Cytoplasmic.

DISEASE: IN DIABETES AND GALACTOSEMIA, INCREASED AR ACTIVITY LEADS

TO HIGH LEVELS OF SORBITOL AND GALACTITOL, RESPECTIVELY, IN THE

CELLS OF MANY TISSUES. ACCUMULATION OF SUGAR ALCOHOLS HAS BEEN

SHOWN TO CAUSE OSMOTIC CATARACTS IN THE LENS. AR IS ALSO THOUGHT

TO PLAY A KEY ROLE IN DIABETIC COMPLICATIONS OF THREE OTHER TARGET

TISSUES, NAMELY, NERVE, KIDNEY AND RETINA.

SIMILARITY: BELONGS TO THE ALDO/KETO REDUCTASE FAMILY.
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IPR001395; Aldo/ket_red
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70.0%;
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Pred.
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Query Match
Best Local Similarity
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P10266; Q14273;
01-MAR-1989 (Rel
                                                                                                                                                                      Pfam; PF00075; rnaseH; 1.
Pfam; PF00078; rvt; 1.
Pfam; PF00055; integrase; 1.
Pfam; PF00655; rve; 1.
Pfam; PF02022; Integrase Zn; 1.
Pfam; PF02022; Integrase; Zn; 1.
Pfam; PF02022; Integrase; Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; Endonue, Nuclease; E
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                                                                                             SEQUENCE
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PIR; D24483; GNHUER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-MAR-1999 (Rel. 10, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Endogenous retrovirus HERV-KlO putative pol polyprotein [Includes:
Reverse transcriptase (EC 2.7.7.49); Endonuclease].
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01-MAR-1989 (Rel.
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PRINTS; PR00069; ALDKETEDTASE.
ProDom; PD000288; Aldo/ket red; 1.
PROSITE; PS00062; ALDOKETO_REDUCTASE_2;
PROSITE; PS00798; ALDOKETO_REDUCTASE_3;
PROSITE; PS00798; ALDOKETO_REDUCTASE_1;
Oxidoreductase; NADP; Acetylation.
                                                                                                                          DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a obstween the Swiss Institute of Bioinformatics and the EMBL
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Ono M., Yasunaga T., Miyata
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                                                                                                               DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro;
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874 AA;
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                                                                                             764 F
98936 MW;
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SGI; S002330; GLTI.

InterPro; IPR001327; FAD_byr_redox.

InterPro; IPR001327; FAD_byr_redox.

InterPro; IPR002932; Glu_synthase.

Pfam; PF00070; pyr_redox; 1.

Pfam; PF01493; DUF14; 1.

Pfam; PF01493; DUF14; 1.

Pfam; PF01645; Glu_synthase; 1.

ProDom; PD000139; FAD_pyr_redox; 1.

PTIGRFAMs; TIGR01317; GGGAT sm_gam; 1.

TIGRFAMs; TIGR01317; GGGAT sm_gam; 1.

Oxidoreductase; Iron-sulfur; 3Pe-4S; Flavoprotein; FAD; FMN; NADP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q12680; Q12290;

01-NOV-1997 (Rel. 35, Created)

01-NOV-1997 (Rel. 35, Last sequence up

30-MAY-2000 (Rel. 39, Last annotation

Glutamate synthase [NADPH] precursor (

GLT1 OR YDL171C.
                        METAL
CONFLICT
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                                                                                                                                                            CHAIN
NP_BIND
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; X89221; CAA61505.1; -.
EMBL; Z67750; CAA91574.1; -.
EMBL; Z74219; CAA98745.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted (NOV-1995) to the EMBL/GenBank/DDBJ databases.
-!- CATALYTIC ACTIVITY: 2 L-glutamate + NADP(+) = L-glut
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN=S288c;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Filetici P., Martegani M.P., Valenzuela L., Gonzalez A., "Sequence of the GLT1 gene from Saccharomyces cerevisiae domain structure of yeast glutamate synthase."; Yeast 12:1359-1366(1996).
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Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetales; Saccharomycetaceae; Saccharomyces.
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IRON-SULFUR (3FE-4S)
IRON-SULFUR (3FE-4S)
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(EC 1.4.1.13) (NADPH-GOGAT).
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Protein transport; Translocation; Transmembrane.
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SUBUNIT: ONE OF SEVEN SECRETORY PROTEINS (SECA-F & SECY) COMPRISE THE PROKARYOTIC PROTEIN TRANSLOCATION APPARATUS. SUBCELLULAR LOCATION: Integral membrane protein. SUBCELLULAR LOCATION: Integral membrane protein.
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PROSITE; PS00755; SECY_1; 1
PROSITE; PS00756; SECY_2; 1
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COMPRISE THE PROKARYOTIC PROTEIN TRANSLOCATION APPARATUS
SUBCELLULAR LOCATION: Integral membrane protein.
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EMBL; M31102; AAB5918.1; -.
EMBL; D00619; BAA00495.1; ALT_INIT.
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                                                                   InterPro; IPR002208; Secy. Pfam; PF00344; secy; 1. PRINTS; PR00303; SECYTRNLC
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Gene 169:17-23(19)
-!- FUNCTION: INV
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Suh J.W., Boylan S.A.,
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Mol. Microbiol. 4:305-314(1990).
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J. Biochem. 107:603-607(1990)
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 Protein transport; Translocation; Transmembrane; Complete proteome.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Genetic and transcriptional organization
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Isolation of a secY homologue from Bacillus subtilis: evidence for a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=90251170;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                FUNCTION: INVOLVED IN PROTEIN EXPORT. INTERACTS WITH SECF TO ALLOW THE TRANSLOCATION OF PROTEINS ACROSS THE PLASMA BY FORMING PART OF A CHANNEL.
SUBJUNIT: ONE OF SEVEN SECRETORY PROTEINS (SECA-F & SECY) COMPRISE THE PROKARYOTIC PROTEIN REMASSLOCATION APPARATUS. SUBJULLAR LOCATION: INTEGERAL Membrane protein. SUBJULLAR LOCATION: INTEGERAL Membrane protein.
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                   PR00303; SECYTRNICASE.; TIGR00967; 3a05018007; PS00755; SECY_1; 1. PS00756; SECY_2; 1.
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Boylan S.A., Thomas S.M.,
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S.A., Oh S.H., Price C.W.;
S.A., Oh S.H., Price C.W.;
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15, Last sequence up
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YP46_YEAST
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WEDLINE-97313271; PubMed=9169875;

A Bussey H., Storms R.K., Ahmed A., Albermann K., Allen E., Ansorge W. Araujo R., Aparicio A., Barrell B.G., Badcock K., Benes V., Allen D., Bowman S., Bruckner M., Carpenter J., Cherry J.M., A. Chung E., Churcher C.M., Coster F., Davis K., Davis R.W., A. Dietrich F.S., Delius H., DiPaolo T., Dubois E., Duesterhoeft A., A. Dietrich F.S., Delius H., DiPaolo T., Dubois E., Duesterhoeft A., A. Duncan M., Floeth M., Fortin N., Friesen J.D., Fritz C., Goffeau A. Duncan M., Floeth M., Fortin N., Friesen J.D., Fritz C., Goffeau A. Hunicke-Smith S., Hyman R., Johnston M., Kalman S., Kleine K., A. Hunicke-Smith S., Hyman R., Johnston M., Kalman S., Kleine K., A. Hunicke-Smith S., Hyman R., Johnston M., Kalman S., Kleine K., A. Marathe R., Messenguy F., Mewes H.-W., Mirtipati S., Moestl D., A. Marathe R., Messenguy F., Mewes H.-W., Mirtipati S., Moestl D., A. Mueller-Auer S., Namath A., Nentwich U., Oefner P., Pearson D., A. Marathe R., Messenguy F., Mewes H.-W., Sdicu A.M., Tettelin H., A. Petel F.X., Pohl T.M., Purnelle D., Schafer M., Scharfe M., Scharazu L.A., Ushinsky S., Vierendeels F., Vissers S., Voss H., Walsh S.V., Wambutt R., Wang Y., Wedler E., Wedler H., Winnett E.,
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The sequence of 55 kb on the left arm of yeast chromosome XVI
The sequence of 55 kb on the left arm of yeast chromosome XVI
The sequence of 55 kb on the left arm of yeast chromosome XVI
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MEDLINE=97103777; PubMed=8948103;
                                                                                                                                                                                                                                                                                                                                                                                                                    Bukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomyces.
                                                                                                                                                                                                                                                                                                                                                                                                                                                Saccharomyces cerevisiae (Baker's yeast).
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hypothetical protein YPL14 YPL146C OR LPI2C OR P2610
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15-JUN-2002
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16-0CT-2001
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                                                                                                                                                                                                                                                                           identifies a small nuclear RNA, a new new putative regulators."; Yeast 12:1483-1492(1996).
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ritz C., Goffeau
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P15121; Q9BS21;
01-APR-1990 (Rel. 1
01-AUG-1992 (Rel. 2
15-JUN-2002 (Rel. 4
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DOMAIN 273 276
DOMAIN 281 293
SEQUENCE 455 AA; 52
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Aldose reductase (EC 1.1.1.21) (AR) (Aldehva AKK1B1 OR ALDR1.
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"The nucleotide sequence of Saccharomyces cerevisiae chromosome XVI.";
Nature 387:103-105(1997).
-!- SIMILARITY: BRIONCE TO THE STATEMENT OF THE SIMILARITY: BRIONCE TO THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF 
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EMBL; X96770; CAA65547.1; -.
EMBL; Z73502; CAA97850.1; -.
SGD; S0006667; YPL146C.
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                                                                                                                                                                                                                                                                                   "Cloning and sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=90045960; PubMed=2510130;
Graham A., Hedge P.J., Powell S.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE
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MEDLINE=89255461; PubMed=2498333;
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Mammalia; Eutheria; Primates;
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                                                                  MEDLINE=90253609; PubMed=2111143;
                                                                                                           TISSUE=Placenta;
                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                    J. Biol.
                                                                                                                                                                                                                                                                                                                                                             MEDLINE=89359274; PubMed=2504709;
                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
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and prokaryotic expression of a biologically active human
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3; Mismatches
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X-RAY CRYSTALLOGRAPHY (1.8 ANGSTROMS).

MEDLLINE=98070237; PubMed=9405046;

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Wan unlikely sugar substrate site in the 1.65 A structure of
human aldose reductase holoenzyme implicated in diabetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE OF 243-274.

MEDLINE=8912333; PubMed=2492527;

Morjana N.A., Lyons C., Flynn T.G.;

"Aldose reductase from human psoas muscle. Affinity labeling of 
"Aldose reductase from by pyridoxal 5'-phosphate and pyridoxal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=97341182; PubMed=9195951; Ko B.C.B., Ruepp B., Bohren K.M., Gabbay K.H., Chung S.S.; Ko B.C.B., Ruepp B., Bohren K.M., Gabbay K.H., Chung S.S.; "Identification and characterization of multiple osmotic response sequences in the human aldose reductase gene."; J. Biol. Chem. 272:16431-16437(1997).
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Graham A., Brown L., Hedge P.J., Gammack
"Structure of the human aldose reductase
J. Biol. Chem. 266:6872-6877(1991).
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Lyons C., Flynn T.G.;
"Cloning and expression of
J. Biol. Chem. 265:9788-979
                                                                                                                                   MEDLINE-94052189; PubMed-8234324;
Wilson D.K., Tarle I., Petrash J.M., Quiocho F.A.;
"Refined 1.8-A structure of human aldose reductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=94109388; PubMed=8281941;
Jaquinod M., Potier N., Klarskov K.,
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J. Biol. Chem. 264:2912-29
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DNA Cell Biol. 9:149-157(1990).
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                                                                                                        inhibitor zopolrestat.";
Natl. Acad. Sci. U.S.A. 9
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eductase gene.'
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V., Biellmann
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modified and this statement
                                                                                         This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Entropean Bioinformatics Institute. There are no restructe by non-profit institutions as long as its content
                                                                                                                                                                                                                                      DISEASE: IN DIABETES AND GALACTOSEMIA, INCREASED AR ACTIVITY LEADS TO HIGH LEVELS OF SORBITOL AND GALACTITOL, RESPECTIVELY, IN THE CELLS OF MANY TISSUES. ACCUMULATION OF SUGAR ALCOHOLS HAS BEEN SHOWN TO CAUSE OSMOTIC CATARACTS IN THE LENS. AR IS ALSO THOUGHT TO PLAY A KEY ROLE IN DIABETIC COMPLICATIONS OF THREE OTHER TARGET TISSUES, NAMELY, NERVE, KILDNEY AND RETURA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                FUNCTION: CATALYZES THE NADPH-DEPENDENT REDUCTION OF J VARIETY OF CARBONYL-CONTAINING COMPOUNDS TO THEIR CORR ALCOHOLS WITH A BROAD RANGE OF CATALYTIC EFFICIENCIES CATALYTIC ACTIVITY: Alditol + NAD(P)(+) = aldose + NAI SUBUNIT: MONOMER.
                                                                                                                                                                                                                                                                                                                                                                                                                                              SUBCELLULAR LOCATION: Cytoplasmic
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equires a license agreement (See http:\overline{//www}.isb-sib.ch/announce/email to license@isb-sib.ch).
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EMBL; J05017; AAA51714.1; -.
EMBL; M34720; AAA35560.1; -.
EMBL; M34721; AAA35561.1; -.
EMBL; M34721; AAA557115.1; -.
EMBL; M59783; AAA51712.1; -.
EMBL; M59865; AAA51712.1; JOINED.
EMBL; M59865; AAA51712.1; -.
EMBL; BC000260; AAH00260.1; -.
EMBL; BC000380; AAH00260.1; -.
EMBL; BC000380; AAH00387.1; -.
EMBL; BC010391; AAH10391.1; -.
                                                                                                                      Oxidoreductase;
INIT MET 0
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CONFLICT 161
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pfam; pF00248; aldo_ket_red; 1.
pRINTS; pR00069; ALDEXTREDTASE.
proDom; pD000288; Aldo/ket_red; 1.
pROSITE; pS00062; ALDOXETO_REDUCTASE 2; 1.
pROSITE; pS00063; ALDOXETO_REDUCTASE 3; 1.
pROSITE; pS00798; ALDOXETO_REDUCTASE 1; 1.
oxidoreductase; NADP; Acetylation; 3D-structure.
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R B33851; B33851; B33851;
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IAE -> EAA (IN REF. 9).
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16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
16-OCT-2001 (Rel. 40, Last annotation update)
Muscarinic acetylcholine receptor M3 (Mm3 m
CHRM3 OR CHRM-3.
                                                                                                                                                                                          Andre C., Dos Santos G., Koulakoff A.;

"Cultured neurons from mouse brain reproduce the muscarinic receptor profile of their tissue of origin.";

Eur. J. Neurosci. 6:1691-1701(1994).

-I- FUNCTION: THE MUSCARINIC ACETYLCHOLINE RECEPTOR MEDIATES VARIOUS CELLULAR RESPONSES, INCLUDING INHIBITION OF ADENYLATE CYCLASE, BREAKDOWN OF PHOSPHOINOSITIDES & MODULATION OF POTASSIUM CHANNELS THROUGH THE ACTION OF G PROTEINS. PRIMARY TRANSDUCING EFFECT IS PI
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                 EMBL; SP264050; AAG14344.1; -.
EMBL; S74908; AAB33576.2; -.
MGD; MGI:88398; Chrm3.
InterPro; IPR000276; GPCR_Rhod;
                                                                                                 modified
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                                                                                                                            This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN
                                                                                                                                                                                                                                                                                                                                  "Isolation, sequence and functional expression of mouse muscarinic acetylcholine receptor genes.";
Submitted (SEP-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A. Gomeza J., Wess J.;
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Mammalia; Eutheria; Rodentia;
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                                                                                            European Bioinformatics Institute. There by non-profit institutions as long as ified and this statement is not removed.
                                                                                                                                                             SUBCELLULAR LOCATION: Integral membrane protein.
SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
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                                              Biochem.
                                                                            MEDLINE=88077068; PubMed=3120722;
Braun T., Schofield P.R., Shivers B.D.,
"A novel subtype of muscarinic receptor
screening.";
                                                                                                                                                                              SEQUENCE FROM N.A. TISSUE-Brain;
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MEDLINE=87263421; PubMed=3037705;
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus
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MEDLINE=90166521; PubMed=3272174;
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PS50262; G_PROTEIN_RECEP_F1_2; 1.
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PS50262; G_PROTEIN_RECEP_F1_2; 1.
PS50262; G_PROTEIN; Transmembrane;
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EMBL; M16408; AAA4062.1; ALT_SEQ.

EMBL; M1808B; AAA40652.1; -.

EMBL; M62826; AAA41553.1; -.

EMBL; AB017656; BAA36839.1; -.

PIR; B29514; B29514.
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J. Biol. Chem. 267:19313-19319(1992).
I. FUNCTION: THE MUSCARINIC ACETYLCHOLINE RECEPTOR MEDIATES VARIOUS
CELLULAR RESPONSES, INCLUDING INHIBITION OF ADENYLATE CYCLASE,
BREAKDOWN OF PHOSPHOINOSITIDES & MODULATION OF POTASSIUM CHANNELS
THROUGH THE ACTION OF G PROTEINS. PRIMARY TRANSDUCING EFFECT IS PI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=92037535; PubMed=1657592;
Wess J., Gdula D., Brann M.R.;
"Site-directed mutagenesis of the m3 muscarinic receptor:
identification of a series of threonine and tyrosine resi
involved in agonist but not antagonist binding.";
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PIR; A29476; A29476.
InterPro; IPR000276; GPCR_Rhodpsn.
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SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS
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                                                                                                                                                                                                                                                                                                                              use by non-profit institutions as long as its content is in wey modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=94339178; PubMed=8061048; Lee P.H., Hodges P.K., Glickman P., Chang W "Cloning and expression of a cDNA encoding acetylcholine m3 receptor.";
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MEDLINE=92299690; PubMed=1376732;

Hardwick C., Hoare K., Owens R., Hohn H.P., Hook M., Moore D.,

Cripps V., Austen L., Nance D.M., Turley E.A.;

"Molecular cloning of a novel hyaluronan receptor that mediates tumor
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Hardwick C., Hoare K., Owens R., Hohn H.P., Hook M., Moore D.,
Cripps V., Austen L., Nance D.M., Turley E.A.;
"Correction. Molecular cloning of a novel hyaluronan receptor that
mediates tumor cell motility.";
J. Cell Biol. 118-753-753(1992).
EMBL; S41029; AAA09809.1; ...
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Lynn B.D., Li X., Cattini P.A., Nagy J.I.;
"Sequence, protein expression and erk associat
RHAMM in PC12 cells.";
Submitted (JAN-2001) to the EMBL/GenBank/DDBJ
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EMBL; AF336825; AAK21904.1; -.
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Li X., Lynn B., Nagy J.
"RHAMM cDNA from rat b;
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Submitted (JAN-2002)
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
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to the
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Pred. No. 21;
1; Mismatches
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Pred. No.
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Q942A1;
01-DEC-2001
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O9FRZ1; 17EMBLrel 16,
01-MAR-2001 (TEMBLrel 16,
01-MAR-2002 (TEMBLrel 20,
                                                                                        ProDom; PD000039; Response reg; 1.
SMART; SM00448; REC; 1.
Phosphorylation; Sensory transduct:
SEQUENCE 235 AA; 25664 MW; A53
                                                                                                                                      STRAIN-GOLDEN CROSS BANTAM T51;
Sakakibara H., Sugiyama T.;
"Cloning and characterization of maize response regulators.";
Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.
EMBL; AB042261; BAB20579.1; -.
InterPro; IPR001789; Response_reg.
Pfam; PF00072; response_reg; 1.
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Spermatophyta; Magnoliophyta;
Panicoideae; Andropogoneae; Z.
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INTERPO, IPR001789; Response reg.
Pfam; PF00072; response reg; T.
ProDom; PD000039; Response reg; 1.
Phosphorylation; Sensory transduction.
Phosphorylation; Sensory transduction.
SEQUENCE 232 AA; 24863 MW; 5454CA63CF2EF95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sasaki T., Matsumoto T., Yamamoto K.; "Oryza sativa nipponbare(GA3) genomic clone: P0431G06.";
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Spermatophyta; Magnoliophyta; Liliopsida;
Ehrhartoideae; Oryzeae; Oryza.
NCBI_TaxID=4530;
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KLKSHLLKRK 157
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2 (TrEMBLrel. 20,
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Pred.
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L; Mismatches
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C STRAIN-CV GOLDEN CROSS BANTAM T51;

Sakakibara H., Sugiyama T.;

A Sakakibara H., Sugiyama T.;

"Cloning and characterization of maize response regulators.";

Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.

EMBL; AB042267; BAB20580.1; -.

EMBL; AB042267; PRB20186.1; -.

EMBL; AB042267;
                                                                                                                                                                                                                                                                                                                              Matches
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Best Local
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Best Local 9
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STRAIN=IL1403;

MEDLINE=21235186; PubMed=11337471;

Melisenbach J., Wincker P., Mauger S., Jaillon (
Weissenbach J., Ehrlich S.D., Sorokin A.;

"The complete genome sequence of the lactic lactis IL1403.";

Genome Res. 11:731-753(2001).

EMBL; AB006263; ARK04355.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Complete
SEQUENCE
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01-MAR-2001 (TrEMBLrel.
01-MAR-2002 (TrEMBLrel.
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NCBI_TaxID=1360;
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640 AA;
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RESULT 9
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                    SEQUENCE FROM N.A.

STRAIN-BRISTOL N2;

Le T.T., Kemp K., Scheet P.;

"The sequence of C. elegans co
Submitted (APR-1997) to the EM
[3]
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O01506;

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Hypothetical

C37A2.8.
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Q95Q71;
01-DEC-2001
01-DEC-2001
01-DEC-2001
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Submitted (OCT-2001) to the
EMBL; U97194; AAL02460.1; -.
                                                                                                                                                                     "Genome sequence of the nematode C. elegans: a platform for investigating biology. The C. elegans Sequencing Consortium."; Science 282:2012-2018(1998).
                                                                                                                                                                                                                                                          SEQUENCE FROM N.A. STRAIN=BRISTOL N2; MEDLINE=99069613;
                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Nemato
Rhabditidae; Peloderinae;
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"The sequence of C. elegans of
Submitted (APR-1997) to the I
[3]
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STRAIN=BRISTOL N2;
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STRAIN=BRISTOL N2;
MEDLINE=99069613;
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Rhabditidae; Peloderinae;
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SEQUENCE
                                                                                                                                                                                                                                          None;
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7; Conserv
FROM N.A.
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al 39.7 kDa protein.
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(TrEMBLrel. 19, 1
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Last annotation updat
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                                       cosmid C37A2.";
EMBL/GenBank/DDBJ
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EMBL/GenBank/DDBJ databases.
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Pred. No. 8.3;
3; Mismatches
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"Direct Submission.";
Submitted (SEP-2001) to the EMBL; U97194; AAB52452.1; -
Hypothetical protein.
SEQUENCE 336 AA; 39659 M
                                                                                                                                                                                                                                                                  01-JUN-2002 (
01-JUN-2002 (
01-JUN-2002 (
Receptor for
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NON_TER
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SEQUENCE
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Schoenfelder M., Einspanier R.; "Expression of HAS-system during oocyte maturation Submitted (MAR-2002) to the EMBL/GenBank/DDBJ datab EMBL; AJ439694; CAD29126.1; -.
                                                                                                                                                              Eukaryota; Metazoa; Ch
Mammalia; Eutheria; Ce
Bovidae; Bovinae; Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DUN-2002 (TrEMBLrel. 21, Last annotation update)
101-JUN-2002 (TremBlrel. 21, Last annotation update)
Hyaluronic acid-mediated motility receptor (Fragment).
Ovis aries (Sheep).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Cetartiodactyla, Ruminantia, Pecora, Bovoidea, Bovidae, Caprinae, Ovis.

NCBI_TaxID=9940,
                                                                                                                                                                                                                          Bos taurus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (AUG-2000) to the EMBL; AF310973; AAK69578.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Aoki T.A., Forteza R.M., "Receptor for hyaluronic
                                                                                   TISSUE=OVARY;
                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                         NCBI_TaxID=9913;
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82
PAA;
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Cetartiodactyla; Ruminantia;
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                                                                                                                                                                                                                                                                (Fragment)
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SEQUENCE FROM N.A. STRAIN=MBA TYPE X; MEDLINE=98411422;
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Mycoplasmataceae; Urea
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STRAIN=MBA TYPE 8;
MEDLINE=98411422; PubMed=9738062;
Knox C.L., Timms P.;
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01-MAR-2001 (TrEMBLrel.
Multiple banded antigen
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STRAIN=MBA TYPE 8;
MEDLINE=99045873; PubMed=9828433;
Knox C.L., Giffard P., Timms P.;
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    PubMed=9738062;
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Ureaplasma urealyticum (Ureaplasma urealyticum biotype 2).
Bacteria; Firmicutes; Bacillus/Clostridium group; Mollicutes;
Mycoplasmataceae; Ureaplasma.
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(TrEMBLrel. 10, Last sequence update)
(TrEMBLrel. 16, Last annotation update)
nded antigen (Fragment).
n (Ureaplasma urealyticum biotype 2).
Bacillus/Clostridium group; Mollicutes;
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Q9ZB37;

Q9ZB37;

Q1-MAY-1999 (TrEMBLrel. 10, Created)

Q1-MAY-1999 (TrEMBLrel. 10, Last sequence update)

Q1-MAR-2001 (TrEMBLrel. 16, Last annotation update)

Multiple banded antigen (Fragment).

Ureaplasma urealyticum (Ureaplasma urealyticum biotype 2).

Bacteria, Firmicutes, Bacillus/Clostridium group; Mollicutes;
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Q9ZB38; Q1-MAY-1999 (TrEMBLrel. 10, Created)
01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
Multiple banded antigen (Fragment).
Ureaplasma urealyticum (Ureaplasma urealyticum biotype 2).
Bacteria; Firmicutes; Bacillus/Clostridium group; Mollicutes;
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STRAIN-MBA TYPE X;
MEDLINE-99045873; PubMed-9828433;
Knox C.L., Giffard P., Timms P.;
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"Comparison of PCR, nested PCR, and rand"
"Comparison of PCR typing of Ureaplay
PCR for detection and typing of Ureaplay
from pregnant women.";
J. Clin. Microbiol. 36:3032-3039(1998).
    Zheng X., Teng L.-J., "Sequence analysis of
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                                                                                                                                                                                                                                               Mycoplasmataceae; Ureaplasma
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fragment.":
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AF108877; AAD19956.1; -.
ER 68 68
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Best Local Similarity
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                                                                                              genes from different serovars of Ureaplasma urealyticum."; Submitted (MAR-1996) to the EMBL/GenBank/DDBJ databases. EMBL, U50461; AAD00077.1; -.
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RHAMM 1-2a isoform	Mouse RHAMM protei	Receptor for hyalu	Hyaluronan recepto	Receptor for hyala	Hyaluronan binding	Cellular response	Mouse RHAMM bindin	Hyaluronan recepto	Hyalauronan (HA) b	Description

## ALIGNMENTS

13-AUG-2002 ABG60827; ABG60827 standard; Peptide; 10 Hyalauronan (HA) binding peptide #10. (first entry) Ä

RRESULT 1
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AC ABGG
XX
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DT 13-P
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XX
DS Synt
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DS 11-1
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XX
DFF 05-C
XX Tissue disorder; response-to-injury process; cell proliferating; hyaluronic acid; HA; receptor for hyalauronan-mediated motility; RHAMM; inflammatory neurological disorder; Parkinson's disease; alzhritis; multiple sclerosis; gastritis; nephritis; inflammatory dermatosis; psoriasis; inflammatory bowel disease; stenosis; restenosis; cancer; kidney fibrosis; inflammatory lung disease; emphysema; asthma; cystic fibrosis; obesity; obesity related disease; lupus; cardiovascular disease; atheroselerosis; wound; scar; diabetes; tissue transplantation; stroke; inflammatory response; fibrotic response; medical implant; Acquired immunodeficiency syndrome; AIDS; hepatitis; myocardial fibrosis; hepatit fibrosis; chronic cystitis; acute mastitis; 05-OCT-2000; 2000WO-IB01534. 11-APR-2002 05-OCT-2000; 2000WO-IB01534. WO200228415-A1. Synthetic. septic shock; thyroiditis; retinopathy.

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RESULT 2
AAA46551
ID AAA4
XX AAA4
AC AAA4
AC AAA4
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XX Hyal
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KW heal
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CC comprising administering a polypeptide (I) which binds hyaluronic acid

CC (HA), an antibody which binds one of domains D1-D5 of Receptor for

CC hyalauronan-mediated motility (RHAMM), a polypeptide fragment encoding

CC antibodies or a polypeptide fragment. The method is useful for treating a

CC patient with an inflammatory neurological disorder such as Parkinson's

CC disease, Alzheimer's disease, arthritis including rheumatoid arthritis,

CC osteoarthritis, multiple sclerosis, inflammatory dermatosis (psoriasis),

CC osteoarthritis, multiple sclerosis, inflammatory dermatosis (psoriasis),

CC offibrosis), obesity or obesity related diseases, lupus, cardiovascular

CC fibrosis), obesity or obesity related diseases, lupus, cardiovascular

CC disease (e.g. atherosclerosis), and wound especially surgical excision

CC militus. The method is also useful for treating or preventing diabetes

CC estheters), inflammatory diseases such as hip implants, vascular wraps and

CC catheters), inflammatory diseases such as hip implants, vascular wraps and

CC fibrosis, chronic cystitis, acute mastitis, gastritis, nephritis,

CC fibrosis, chronic cystitis, acute mastitis, gastritis, nephritis,

CC osteoated with medical implants such as hip implants. Vascular wraps and

CC fibrosis, chronic cystitis, acute mastitis, gastritis, nephritis,

CC represents a hyalauronan (HA) binding peptide used in the method of

CC treating a tissue disorder described in the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                     healing; diagnosis; treatment; cell locomotion; tumour invasion; birth defects; inflammatory disorder; Alzheimer's disease; dementia; Parkinson's disease; Huntington's disease; AIDS; diabetes; auto; immune diseases; corneal dysplasia; hypertrophy; surgery; burns; strokes; multiple sclerosis; depression; schizophrenia; CNJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Treating tissue disorder associated with response-to-injury process or proliferating cells in mammals, e.g. fibrosis, inflammation, by administering a compound that alters activity of transition molecules within a cell
                                              13-APR-1993;
                                                                                                                                                                                  contraception;
                                                                                                                                                                                                                                                                                                                     Hyaluronan binding protein; HA; RHAMM; mediated motility; wound;
                                                                                                                                                                                                                                                                                                                                                                  Hyaluronan receptor binding motif (claimed).
                                                                                                                                                                                                                                                                                                                                                                                                                 05-APR-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAR46551;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAR46551 standard; Protein; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 31; Page 115; 215pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (TRAN-) TRANSITION THERAPEUTICS & DIAGNOSTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 KLKSQLVKRK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 KLKSQLVKRK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    invention describes
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    92GB-0007949
                                                                                                                                                                                    ä
                                              93WO-CA00158
                                                                                                                                                                                    vitro
                                                                                                                                                                                                                                                                                                                                                                                                               entry)
                                                                                                                                                                                fertilisation; embryo development.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a method of treating a tissue disorder associated
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 46; DB 23
Pred. No. 0.026;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ₽
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Isolated human receptor to develop products for
                                                                                                                                                             (MANI-)
                                                                                                                                                                                                                                                                                                                                                                  WO9738098-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mouse RHAMM
                                                                                                           Entwistle J,
                                                                                                                                                                                                                               10-APR-1996;
                                                                                                                                                                                                                                                                                                                        16-OCT-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RHAMM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
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                                                                                                                                                                                                                                                                         10-APR-1997;
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The sequence is that of a binding motif fragment of the hyaluronan receptor (HARC). HARC is down regulated in normal cells and is onleaves to growth factors and in chemotaxis by wound healing, in response to growth factors and in chemotaxis by white blood cells. HA may be used for diagnosis and treatment of diseases involving cell locomotion, e.g. tumour invasion, birth defects, acute and chronic inflammatory disorders, Alzheimer; s and other forms of dementia, AIDS, diabete, auctimume diseases, corne dysplasias and hypertrophies, burne, surgical incisions and adhesic strokes, multiple sclerosis, depression/schizophrenia related to neuronal growth and pain states involving new sprouting; also in an advantage of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           growth factor; cell locomotion disorder; dementia; decention; inflammatory disorder; autoimmune disease; diagnosis; prognosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hyaluronan receptor;
                                                                                                                                                    WPI; 1997-512715/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAW39164 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and spinal cord regeneration,
embryo development.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 18; Page 57; 88pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA encoding hyaluronan receptor - used to produce proteins and antibodies for alteration of cell locomotion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1993-351722/44
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         glycosaminoglycan; binding domain; mouse; oncogene; tr factor; cell locomotion disorder; dementia; detection;
                                                                                                                                                                                                                                                                                                                                                                                MANITOBA CANCER TREATMENT & RES FOUND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MANITOBA CANCER TREATMENT & RES FOUND. UNIV MANITOBA.
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                                                                                                                                                                                                                                                                                                                                          MANITOBA.
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                                                                                                                                                                                                                                          EA,
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90.0%;
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for hyaluronic acid mediated motility - treating e.g. tumours, inflammatory
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Pred. No. 0.097;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RHAMM; inflammatory neurological disorder; Parkinson's disease; Alzheimer's disease; arthritis; multiple sclerosis; gastritis; nephritis; inflammatory dermatosis; psoriasis; inflammatory bowel disease; stenosis; restenosis; cancer; kidney fibrosis; inflammatory lung disease; emphysema; asthma; cystic fibrosis; obesity; obesity related disease; emphysema; asthma; cystic fibrosis; obesity; obesity related disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                lupus; cardiovascular disease; atherosclerosis; wound; scar; diabetes; tissue transplantation; stroke; inflammatory response; fibrotic response medical implant; Acquired immunodeficiency syndrome; AlDS; hepatitis; myocardial fibrosis; hepatic fibrosis; chronic cystitis; acute mastitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           be used in e.g. CNS and spinal cord regeneration, contraception and in vitro fertilisation and embryo development. The products can also be
                                              WPI; 2002-435298/46
                                                                                                                                                                                                                                                                                                                                                                    05-OCT-2000; 2000WO-IB01534.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tissue disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cellular response to injury associated peptide #3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABG60822;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABG60822 standard; Peptide; 11 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure;
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                                                                                                                           Turley EA,
                                                                                                                                                                                                                                                                                   05-OCT-2000; 2000WO-IB01534.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200228415-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hyaluronic acid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             used in detection,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Н
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KLRSQLVKRK 10
                                                                                                                                                                                                       TRANSITION THERAPEUTICS & DIAGNOSTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             dementia, AIDS, diabetes and auto-immune diseases
                                                                                                                      Cruz TF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              thyroiditis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      response-to-injury process; cell proliferating; HA; receptor for hyalauronan-mediated motility; ory neurological disorder; Parkinson's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     diagnosis and prognosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             93.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              retinopathy.
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Pred. No. 0.097;
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fibrosis), obesity or obesity related diseases, lupus, cardiovascular disease (e.g. atherosclerosis), and wound especially surgical excision adhesions, to prevent scar and also for treating or preventing diabetes mellitus. The method is also useful for treating tissue transplantation (e.g. skin grafts), stroke, inflammatory responses or fibrotic response associated with medical implants such as hip implants, vascular wraps are catheters), inflammatory such as hIDS, myocardial and hepatic fibrosis, chronic cystitis, acute mastitis, gastritis, nephritis, hepatitis, septic shock, thyroiditis, and retinopathy. This sequence represents a peptide associated with the method of treating tissue
                                                                                                                                                                                                                                                                                                                                                                                        hyalauronan-mediated motility (RHAMM), a polypeptide fragment encoding any of D1-D5 of RHAMM, or a vector which expresses antisense RHAMM, articles or a polypeptide fragment. The method is useful for treating patient with an inflammatory neurological disorder such as Parkinson's disease, Alzheimer's disease, arthritis including rheumatoid arthritis, osteoarthritis, multiple sclerosis, inflammatory dermatosis (psoriasis), inflammatory bowel disease, stenosis or restenosis, cancer, kidney fibrosis, inflammatory lung disease (e.g. emphysema, asthma, cystic fibrosis, inflammatory lung disease (e.g. emphysema, asthma, cystic fibrosis, inflammatory lung disease (e.g. emphysema, asthma, cystic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Treating tissue disorder associated with response-to-injury process or proliferating cells in mammals, e.g. fibrosis, inflammation, by administering a compound that alters activity of transition molecules
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               with response-to-injury process or proliferating cells in a patient, comprising administering a polypeptide (I) which binds hyaluronic acid (HA), an antibody which binds one of domains D1-D5 of Receptor for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 199;
                                                             disorders described in the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   invention describes a method of treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             215pp; English
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Best Loc Matches Query Match Local Similarity les 9; Conserv 1 KLRSQLVKRK 10 1 KLKSQLVKRK 10 Conservative 93.5**%**; 90.0**%**; Score 43; DB Pred. No. 0.11 1; Mismatches 0.11; 23; 0; Length 11; Indels 0, Gaps

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AAR99677 standard; Protein; 32 Hyaluronan binding domain of RHAMM. 10-OCT-1996 (first entry)

RHAMM 1; receptor for hyaluronic acid mediated motility; hyaluronan receptor; cell locomotion; cell proliferation; breast cancer; therapy; dominant suppressor mutant.

Mus sp.

Domain /label= HA\_binding\_domain\_II /note= "corresponds to amino RHAMM" /note= /label= HA\_binding\_domain\_1 Location/Qualifiers "corresponds to amino acids 532-542 of RHAMM " RHAMM acids 553-562

EP721012-A2

10-JUL-1996

16-OCT-1995; 95EP-0307310

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RESULT 6
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Thes 9; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tissue disorder; response-to-injury process; cell proliferating; hyaluronic acid; HA; receptor for hyalaurona-mediated mottlity; RHAMM; inflammatory neurological disorder; Parkinson's disease; Alzheimer's disease; arthritis; multiple sclerosis; gastritis; nephritis; inflammatory dermatosis; psoriasis; inflammatory bowel disease; stenosis; restenosis; cancer; kidney fibrosis; inflammatory lung disease; emphysema; asthma; cystic fibrosis; obesity; obesity related disease; lupus; cardiovascular disease; atherosclerosis; wound; scar; diabetes; tissue transplantation; stroke; inflammatory response; fibrotic response; medical implant, Acquired immunodeficiency syndrome; AIDS; hepaticis; myocardial fibrosis; hepatic fibrosis; chronic cystitis; acute mastitis; septic shock; thyroiditis; retinopathy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The hyaluronan (HA) binding domains (AAR99677) of receptor for hyaluronic acid-mediated motility protein, RHAMM 1 (AAR99673), were mutated (see also AAR99678) in order to determine the importance of RHAMM for maintenance of the transformed phenotype of H-ras-transformed fibrosarcomas. Loss of HA binding was confirmed for the mutated RHAMM fusion protein in a translot assay. Reversion of H-ras-transformation with the mutated RHAMM was demonstrated. Dominant suppressor mutants of the RHAMM gene may be used in the treatment or prevention of disorders characterised by RHAMM gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N-PSDB;
05-OCT-2000; 2000WO-IB01534
                               05-OCT-2000; 2000WO-IB01534.
                                                                                                                            Unidentified
                                                                                                                                                                                                                                                                                                                                                                  Receptor for hyalauronan-mediated motility binding peptide #2.
                                                                                                                                                                                                                                                                                                                                                                                                       13-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABG60846 standard; Peptide; 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          overexpression, e.g. breast cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 6; Fig 18A; 117pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Receptor for hyaluronic acid-mediated motility protein, and DNA encoding it - useful to treat or prevent diseases associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; AAT34524.
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AAT23423;
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                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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Pred. No.
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13-APR-1993; 28-OCT-1993

93WO-CA00158

strokes; multiple sclerosis; contraception; in vitro fert:

osis; depression; fertilisation; en

embryo development

WO9321312-A

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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   with response-to-injury process or proliferating cells in a patient, comprising administering a polypeptide (I) which binds hyaluronic acid (HA), an antibody which binds one of domains DI-D5 of Receptor for hyalauronan-mediated motility (RHAMM), a polypeptide fragment encoding any of DI-D5 of RHAMM, or a vector which expresses antisense RHAMM, antibodies or a polypeptide fragment. The method is useful for treating patient with an inflammatory neurological disorder such as Parkinson's disease, Alzheimer's disease, arthritis including rheumatoid arthritis, osteoarthritis multiple sclerosis, inflammatory dermatosis (psoriasis), inflammatory bowel disease, stenosis or restenosis, cancer, kidney fibrosis, inflammatory lung disease (e.g. emphysema, asthma, cystic fibrosis, inflammatory undersity or heavier of the server and the server in the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and the server and th
                                                                                                                                                                                                                                                                                          Hyaluronan binding protein; HA; RHAMM; mediated motility; wound; healing; diagnosis; treatment; cell locomotion; tumour invasion; birth defects; inflammatory disorder; Alzheimer's disease; demen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           fibrosis), obesity or obesity related diseases, lupus, cardiovascular disease (e.g. atherosclerosis), and wound especially surgical excision adhesions, to prevent scar and also for treating or preventing diabetes mellitus. The method is also useful for treating tissue transplantation (e.g. skin grafts), stroke, inflammatory responses or fibrotic response associated with medical implants such as hip implants, vascular wraps an catheters), inflammatory diseases such as hip implants, pascular wraps an catheters, chronic cystitis, acute mastitis, gastrilis, nephritis, hepatitis, septic shock, thyroiditis, and retinopathy. This sequence represents a receptor for hyalauronan-mediated modility binding peptide
                                                                                                                                                                                       birth defects; inflammatory disorder; Alzheimer's disease; dementia; Parkinson's diseases; Huntington's disease; AIDS; diabetes; auto; immune diseases; corneal dysplasia; hypertrophy; surgery; burns; strokes; multiple sclerosis; depression; schizophrenia; CNJ; contracartion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-APR-1994 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                      Hyaluronan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAR43563;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAR43563 standard; Protein; 476 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention describes a method of treating a tissue disorder associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 11; Page
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     93.5%;
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    Mismatches

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Pred. No. 0.
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                                                                                                                                                                                                                                                                                                                                                                                     Best Loc
Matches
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                                                                                                                                                BuM
                                                                                                                                                                              RHAMM 1; receptor for hyaluronic acid mediated motility; hyaluronan receptor; cell locomotion; cell proliferation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA encoding hyaluronan receptor - used to produce antibodies for alteration of cell locomotion
                                                                                         Modified-site
                                                                                                                                                                      breast cancer; therapy
                                                                                                                                                                                                                 Receptor for hyaluronic acid mediated motility RHAMM 1.
                                                                                                                                                                                                                                                             AAR99673;
                                                                                                                                                                                                                                                                                 AAR99673 standard; Protein; 606 AA
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(UYMA-) UNIV MANITOBA.
                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
les 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                       also AAR46548-51.
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DB; AAQ51212.
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                                                                                                                                                                                                                                                                                                                                                                                                                                476 AA;
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                                                                                                                                                                                                                                       (first entry)
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                                                                                                              Location/Qualifiers
                         321..323
                                                                    279..281
                                                                                         258..260
                                                                             /label= N-glycosylation_site
                                                                                                /label= N-glycosylation_site
            /label= N-glycosylation_site
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90.0%;
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Pred. No. 4.2;
1; Mismatches
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N-PSDB;
N-PSDB;
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N-PSDB; AAT34500;
N-PSDB; AAT23423;
N-PSDB; AAT34524.
Hyaluronan receptor; receptor for hyaluronic acid mediated motility; RHAMM; glycosaminoglycan; binding domain; mouse; oncogene; treatment growth factor; cell locomotion disorder; dementia; detection;
                                             Mouse RHAMM protein.
                                                                   27-APR-1998
                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1996-310997/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Entwistle J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-OCT-1994;
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RHAMM 1 (AAR99673), or Receptor for Hyaluronic Acid Mediated Motility, is a hyaluronan receptor protein which is involved in cell locomotion or motility and cell proliferation and transformation. Its amino acid sequence was deduced from a cDNA clone (AAT3450) obtd. from murine 3T3 cells and a genomic sequence (AAT3450) from a mouse fibroblast genomic library. 2 Alternative mRNAs for RHAMM 1 were found, RHAMM 1A (see also AAT34523) and RHAMM 1B (AAT34524), that had identical translated portions. Increased expression of RHAMM 1 protein can be used to suppress or control a tumour by modulating the interaction of cell-associated RHAMM with its ligand.
AAW39166 standard; Protein; 630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 2; Page 40-42; 117pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the receptor, e.g. breast cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Receptor for hyaluronic acid-mediated motility protein, and DNA encoding it - useful to treat or prevent diseases associated w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (MANI-) MANITOBA CANCER TREATMENT & RES (UYMA-) UNIV MANITOBA.
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373..375
/label= N-glycosylation_site
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594..596
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                                                                                                                                                                                                                                                                      Score 43;
Pred. No.
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                                                                                                                                                                                                                                                                                               Length 606;
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Key Region

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CC This sequence represents the mouse hyaluronan receptor which is is also CC known as the receptor for hyaluronic acid mediated motility (RHAMM). CC Hyaluronan is a large glycosaminoglycan that is ubiquitous in the CC extracellular matrix and whose synthesis has been linked to cell migration, growth and transformation. It interacts with cell surfaces via geoific protein receptors, e.g. RHAMM, that mediate many biological effects. The RHAMM/Hyaluronic acid interaction is involved in CC oncogene-and growth factor-mediated cell locomotion. The products can be cused in the treatment of disorders involving cell locomotion, e.g. tumour CC used in the treatment of disorders involving cell locomotion, e.g. tumour CC used in the treatment of disorders involving cell locomotion, e.g. tumour CC used in the treatment of disorders involving cell locomotion, e.g. tumour CC used in the treatment of disorders involving cell locomotion, e.g. tumour CC used in the treatment of disorders involving cell locomotion, e.g. tumour CC used in the treatment of disorders involving cell locomotion, e.g. tumour CC used in the treatment of disorders involving cell locomotion, e.g. tumour CC used in the treatment of disorders involving cell locomotion, e.g. tumour CC used in the treatment of disorders, but and the products and adhesions, corneal CC dyplasia and hypertrophies, burns, surgical incisions and adhesions, corneal corners and corners in the products can also be used in e.g. CNS and CC embryo development. The products can also be used in detection, diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                    RHAMM 1-2a isoform
                                                                                                        10-OCT-1996
                                                                                                                                                                             AAR99675
                                                                                                                                                                                                                                          AAR99675 standard; Protein;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Isolated human receptor for hyaluronic acid mediated motility to develop products for treating e.g. tumours, inflammatory disorders, dementia, AIDS, diabetes and auto-immune diseases
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                                                                                                     entry)
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Pred. No. 5.5,
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      motility), a protein involved in cell locomotion of moverney cell proliferation and transformation. It differs from RHAMM 1 by an insertion of 25 amino acids (see also AAR99674) between amino acids 54 and 55 of RHAMM 1, resulting from an alternatively spliced exon 2A (AAT34502). RHAMM 1-2a is the isoform that is overexpressed in tumours. Determination of the level of RHAMM 1-2a in a sample can be used to assess the prognosis of a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead to a tumour lead
                                                             RHAMM; inflammatory neurological disorder; Parkinson's disease; althritis; multiple sclerosis; gastritis; nephritis; inflammatory dermatosis; psoriasis; inflammatory bowel disease;
                                                                                                                                         Tissue disorder; response-to-injury process; cell proliferating; hyaluronic acid; HA; receptor for hyalauronan-mediated motility; RHAMM; inflammatory neurological disorder; Parkinson's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RHAMM 1-2a (AAR99675) is an alternatively spliced variant of RHAMM 1 (AAR99673) (receptor for hyaluronic acid mediated motility), a protein involved in cell locomotion or motility
                                stenosis; restenosis; cancer; kidney fibrosis;
                                                                                                                                                                                                                                                                           Mouse receptor for hyalauronan-mediated motility (RHAMM)
                                                                                                                                                                                                                                                                                                                                                      13-AUG-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  be used to suppress or control
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Receptor for hyaluronic acid-mediated motility protein, and DNA encoding it - useful to treat or prevent diseases associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1996-310997/32.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 interaction
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                631 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of cell-associated RHAMM with
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a tumour by modulating the RHAMM with its ligand.
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                                                                                                                                                                                                                                                                                                                                                                                     CC hyalauronan-mediated motility (RHAMM), a polypeptide fragment encoding CC any of D1-D5 of RHAMM, or a vector which expresses antisense RHAMM, CC antibodies or a polypeptide fragment. The method is useful for treating a CC patient with an inflammatory neurological disorder such as Parkinson's CC disease, Alzheimer's disease, arthritis including rheumatoid arthritis, CC osteoarthritis, multiple sclerosis, inflammatory dermatosis (psoriasis), CC inflammatory bowel disease, stenosis or restenosis, cancer, kidney CC fibrosis, inflammatory lung disease (e.g. emphysema, asthma, cystic CC fibrosis, obesity or obesity related diseases, lupus, cardiovascular CC disease (e.g. atherosclerosis), and wound especially surgical excision CC disease (e.g. atherosclerosis), and wound especially surgical excision CC eleg. skin grafte), stroke, inflammatory responses or fibrotic response CC associated with medical implants such as hip implants, vascular wraps and CC fibrosis, chronic cystitis, acute mastiis, gastritis, nephritis, CC hepatitis, septic shock, thyroiditis, and retinopathy. This sequence CC represents a receptor for hyalauronan-mediated motility protein used in the method of treating a tissue disorder described in the invention.
                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Treating tissue disorder associated with response-to-injury process or proliferating cells in mammals, e.g. fibrosis, inflammation, by administering a compound that alters activity of transition molecules
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    with response-to-injury process or proliferating cells in a patient, comprising administering a polypeptide (I) which binds hyaluronic acid (HA), an antibody which binds one of domains D1-D5 of Receptor for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tissue transplantation; stroke; inflammatory response; fibrotic response medical implant; Acquired immunodeficiency syndrome; AIDS; hepatitis; myocardial fibrosis; hepatic fibrosis; chronic cystitis; acute mastitis; septic shock; thyroiditis; retinopathy.
                                                                                                                                                                                                                                                                                                                                                           Sequence
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Mouse hyaluronic acid binding protein RHAMM
                                        12-MAR-2002
                                                                             AAU11437
                                                                                                                AAU11437 standard; Protein; 794
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                                      (first entry)
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90.0%;
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Pred. No. 5.
                                                                                                                                                                                                                                                                                  Mismatches
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AIDS; hepatitis;
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The invention relates to a conjugate comprising an hyaluronic acid (HA) C - binding protein e.g. RHAMM (receptor of HA mediated mobility) or peptide contiguous with, or coupled to a polypeptide conjugated to a therapeutic configurated to a therapeutic gent, and the polymuclectides encoding them. Also included is a method configuration of the HA-binding protein directly linked to a second conclected sequence encoding a HA-binding protein directly linked to a second conclected from host or expression medium. The composition is useful for conclected from host or expression medium. The composition is useful for confectual from host or expression medium. The composition is useful for confectual from host or expression medium. The composition is useful for confectual from host or expression medium. The composition is useful for confectual from host or expression medium. The composition is useful for confectual from the composition of a therapeutic agent comprising conjugate endogenous HA and for treating mammal with a disorder where a diseased conjugate for the mammal contains high level of HA e.g. rheumatoid conjugated protein as compared to the native protein. As a result, conjugates improve patient compliance and reduce direct and indirect costs associated with the drug substance and its administration.

CC conjugates allows for the use, where appropriate, of lower, safer, conjugated corresponding therapeutic agent. Conjugate molecules have an increased half-life and potency, resulting in prolonged circulation of the molecule, efficient distribution into the target tissues, and concreased bioaveilability. The present servence as a RHAMM is configurate molecules and configurate molecules and configurate molecules and configurate molecules and configurate molecules and configurate molecules and configurate molecules and configurate molecules and configurate molecules and configurate molecules and c
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Sequence
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Query Match

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Best Local Similarity
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AAW39168
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                                                                                                                                              CC This peptide represents a motif found in a binding domain of rat CC hyaluronan receptor corresponding to amino acid position 424-433. This creeptor is also known as the receptor for hyaluronic acid mediated comotility (RHAMM). Hyaluronan is a large glycosaminoglycan that is considered in the extracellular matrix and whose synthesis has been comply the cell migration, growth and transformation. It interacts with cell surfaces via specific protein receptors, e.g. RHAMM, that mediate many biological effects. The RHAMM/Hyaluronic acid interaction is cinvolved in oncogene-and growth factor-mediated cell locomotion. The products can be used in the treatment of disorders involving cell commotion, e.g. tumour invasion, birth defects, acute and chronic inflammatory disorders, Alzhelmer's and other forms of dementia, confiding Parkinson's and Huntington's diseases, AIDS, diabetes, autoimune diseases, corneal dysplasia and hypertrophies, burns, surgical including Parkinson's and Huntington's diseases, AIDS, diabetes, autoimune diseases, corneal dysplasia and hypertrophies, burns, surgical inclusions and adhesions, strokes and multiple sclerosis. They can also be used in e.g. CNS and spinal cord regeneration, contraception and in vitro fertilisation and embryo development. The products can also be used in detection, diagnosis and prognosis.
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Matches
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RESULT 14
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                                                                                                      The invention relates to a conjugate comprising an hyaluronic acid (HA) C - binding protein e.g. RHAMM (receptor of HA mediated mobility) or peptide contiguous with, or coupled to a polypeptide conjugated to a therapeutic configuous with, or coupled to a polypeptide conjugated to a therapeutic configuous with, or coupled to a polypeptide conjugated to a therapeutic gent, and the polynucleotides encoding them. Also included is a method configurate and the polynucleotides encoding them. Also included is a method configurate encoding a HA-binding protein directly linked to a second configurate encoding a HA-binding protein directly linked to a second configurate encoding a HA-binding protein directly linked to a second configurate encoding a therapeutic protein into a suitable configurate from host or expression medium. The composition is useful for configurate from the distribution of a therapeutic agent comprising conjugate encoding the composition of a therapeutic agent comprising configurate molecule will distribute primarily in tissues and organs containing high levels of conjugate manumal contains high level of HA e.g. rheumatoid conjugates allows for treating mammal with a disorder where a diseased conjugate molecula as compared to the native protein. As a result, conjugates improve patient compliance and reduce direct and indirect conjugates improve patient compliance and reduce direct and indirect conjugates allows for the use, where appropriate, of lower, safer, conjugates allows for the use, where appropriate, of lower, safer, conjugates and potency, resulting in prolonged circulation of the molecule, efficient distribution into the target tissues, and increased bioavailability. The present sequence represents a RHAMM increased bioavailability. The present sequence represents a RHAMM increased to the conventional sequence represents a RHAMM increased to the conventional sequence represents a RHAMM increased to the property resulting in prolonged circulation of the conventional sequence represents a RHAM
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Query Match Best Local S Matches 8

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Score 39; DB Pred. No. 35; 1; Mismatches

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RESULT 15
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                                                            Query Match
Best Local Similarity
Matches 8; Conserv
                                                                                                                                                                                              The sequence is that of a binding motif fragment of the hyaluronan receptor (HARC). HARC is down regulated in normal cells and is only expressed in situations where cell motility is desired, e.g. in wound healing, in response to growth factors and in chemotaxis by white blood cells. HA may be used for diagnosis and treatment of diseases involving cell locomotion, e.g. tumour invasion, birth defects, acute and chronic inflammatory disorders, Alzheimer; s and other forms of dementia, AIDS, diabetes, autoimmune diseases, corneal dysplasias and hypertrophies, burns, surgical incisions and adhesions, strokes, multiple sclerosis, depression/schizophrenia related to neuronal growth and pain states involving nerve sprouting; also in CNJ and spinal cord regeneration, contraception, in vitro fertilisation and embrace development
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hyaluronan binding protein; HA; RHAMM; mediated motility; wound; healing; diagnosis; treatment; cell locomotion; tumour invasion; birth defects; inflammatory disorder; Alzheimer's disease; dementia; Parkinson's disease; Huntington's disease; AIDS; diabetes; auto; immune diseases; corneal dysplasia; hypertrophy; surgery; burns; strokes; multiple sclerosis; depression; schizophrenia; CNJ; contraception; in vitro fertilisation; embryo development.
                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 17; Page 57; 88pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            {\tt DNA} encoding hyaluronan receptor - used to produce proteins and antibodies for alteration of cell locomotion
                                                                                                                                                                     See also AAR46548-51 and AAR43563.
                                                                                                                                                                                        embryo development
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Turley EA;
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                                 1 KLKSQLVKR 9
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KLRSQLVKR 9
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                                                               Score 38; DB 14; Length 9; Pred. No. 7.8e+05; Indels 1; Mismatches 0; Indels
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Search completed: February 8, 2003, 10:41:01 Job time : 30 secs

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Result
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seq length: 2000000000
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1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*

2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*

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4: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*

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Match
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31.670 Million cell updates/sec
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46
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                                                             GenCore version 5.1.3 (c) 1993 - 2003 Compugen Ltd
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                                               US-10-012-896-592
US-09-895-814-592
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US-09-759-143-592
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US-09-864-761-3351
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US-09-815-242-12863
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US-09-815-242-13094
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Sequence 592, App
Sequence 592, App
Sequence 592, App
Sequence 592, App
Sequence 592, App
Sequence 41659, A
Sequence 13331, A
Sequence 12667, A
Sequence 11867, A
Sequence 11904, App
Sequence 150, App
Sequence 150, App
Sequence 17, App
Sequence 17, App
Sequence 17, App
Sequence 17, Appl
Sequence 1863, Appl
Sequence 1863, Appl
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Sequence 5635, Appl
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US-09-738-626-5061	US-09-764-898-165	US-09-764-864-1129	US-09-864-761-47313	US-09-738-973-212	US-09-854-133-212	US-09-764-868-801	US-09-815-242-11475	US-09-815-242-11296	US-09-864-761-34874	US-09-800-729-155	US-09-321-987B-2	US-09-895-913A-246	US-09-925-299-988	US-09-815-242-11148	US-09-801-574-22	US-09-856-247A-2	US-09-864-761-36676	US-10-029-009-22	US-10-029-009-10	US-09-884-430-6	US-09-782-980-82	US-09-841-132-577	US-09-764-898-253	US-10-114-170-257	US-09-801-368-222
5061,	Sequence 165, App	Sequence 1129, Ap	Sequence 47313, A	Sequence 212, App	Sequence 212, App	Sequence 801, App		Sequence 11296, A	34874	15	Sequence 2, Appli	246	Sequence 988, App	Sequence 11148, A	Sequence 22, Appl	Sequence 2, Appli	Sequence 36676, A	Sequence 22, Appl	10,	Sequence 6, Appli		Sequence 577, App	-	Sequence 257, App	Sequence 222, App

## ALIGNMENTS

RESULT 1

Application US/10012896

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APPLICANT: Meagher, Madeleine Joy
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE REFERENCE: 210121.427C27
TULER REFERENCE: 210121.427C27
CURRENT APPLICATION NUMBER: US/10/012,896
CURRENT FILING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 1011
SOFTWARE: FRSTSEQ for Windows Version 3.0
SEQ ID NO 592
LENGTH: 188
TYPE: PRT
ORGANISM: Homo sapiens
US-10-012-896-592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-012-896-592; Sequence 592; Applica; Publication No. US200; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: XL, Jiangchun
APPLICANT: Dillon, Davin C
APPLICANT: Mitcham, Jennifer L.
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Vedvick, Thomas
Carter, Darrick
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Houghton, Raymond L.
Vinals de Bassols, Carlota
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Hepler, William T.
Henderson, Robert A.
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Kalos, Michael D.
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CURRENT APPLICATION NUMBER: US/09/895,793
CURRENT FILING DATE: 2001-06-29
NUMBER OF SEQ ID NOS: 982
SOFTWARE: FRSTSEQ for Windows Version 3.0
SEQ ID NO 592
LENGTH: 188
TYPE: PRT
ORGANISM: Homo sapien
US-09-895-793-592
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                                                                                                                                              Sequence 592, Application US/09895814 Publication No. US20020193296A1 GENERAL INFORMATION:
                                            APPLICANT: Xu, CAPPLICANT: Dill APPLICANT: Harl APPLICANT: Harl APPLICANT: Kall APPLICANT: Kall APPLICANT: Rett
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Matches 7; Conserv
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Best Local Similarity
Matches 7; Conserv
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TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.534C2
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APPLICANT: Dillon, Davin C.
                 PPLICANT:
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                                                                                                                                                                                                                                                  178 LKAQLVKQK 186
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Kalos, Michael D.
Retter, Marc W.
Stolk, John A.
Day, Craig H.
Vedvick, Thomas S.
                            Kalos, Michael D.
Retter, Marc W.
Stolk, John A.
                                                                         Jiang, Yuqiu
                                                                                   Mitcham, Jennifer L.
Harlocker, Susan L.
                                                                                                                 Dillon, Davin C
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Hepler, William T.
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Carter, Darrick
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Vinals de Bassols, Carlota
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o. US20020192763A1
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77.8%;
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77.8%;
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2; Mismatches
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Pred. No.
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Query Match
Best Local Similarity
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                                                                           ; LENGTH: 188
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-759-143-592
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US-09-895-814-592
                                                                                                                                        APPLICANT: Skelky, Yasir A.W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIACNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C23
CURRENT APPLICATION NUMBER: US/09/759,143
CURRENT FILING DATE: 2001-01-12
NUMBER OF SEQ ID NOS: 934
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 592
SEQ ID NO 592
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CURRENT FILING DATE: 2001-06-29
NUMBER OF SEQ ID NOS: 990
SOPTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 592
LENGTH: 188
TYPE: PRT
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Best Local :
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TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER FILE REFERENCE: 210121.427C26
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APPLICANT:
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Local Similarity 77.8%;
les 7; Conservative
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Vedvick, Thomas S.
Carter, Darrick
Li, Samuel
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Hepler, William T.
Henderson, Robert A.
Hural, John
McNeill, Patricia D.
Houghcon, Raymond L.
Vinals de Bassols, Carlota
                                                                                                                                                                                                                                                                                                                                                                                        Fanger, Gary R. Retter, Marc W. Stolk, John A.
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Kalos, Michael D.
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Mitcham, Jennifer L.
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                Conservative
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                            73.9%;
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               Score 34; DB:
Pred. No. 16;
2; Mismatches
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Pred. No. 16;
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APPLICANT: MCNeill, Patricia D.
APPLICANT: Houghton, Raymond L.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THI
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427024
CURRENT APPLICATION NUMBER: US/09/780,669
CURRENT FILING DATE: 2001-02-09
NUMBER OF SEQ ID NOS: 943
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 592
LENGTH: 188
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; ORGANISM: Homo sapien
US-09-780-669-592
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Matches
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Patent No. US20020081680A1
GENERAL INFORMATION:
                                                                            SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 592
LENGTH: 188
TYPE: PRT
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 Best Local Similarity
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                                              ORGANISM: Homo sapien
-09-822-827-592
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CURRENT FILING DATE: 2001-03-28
NUMBER OF SEQ ID NOS: 982
                                                                                                                                                                                 APPLICANT: Xu, Jiangchun
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.534C1
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les 7; Conserv
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Retter, Marc W.
Stolk, John A.
Day, Craig H.
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Hepler, William
Hural, John
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Kalos, Michael D.
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Mitcham, Jennifer L.
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Carter, Darrick
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77.8%;
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 73.9%;
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Pred. No. 16;
Score
Pred.
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                Length 188;
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                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing
SEQ ID NO 46169
LENGTH: 55
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APPLICANT: Hanzel, David K.
Chen. Warner
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PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-20
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CURRENT FILING DATE: 2001-05-23
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PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
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PRIOR APPLICATION NUMBER: PCT/US01/00666
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PRIOR APPLICATION NUMBER: US 60/236,359
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PRIOR APPLICATION NUMBER: GB 24263.6
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PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
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OTHER INFORMATION: MAP TO ACO09275.5
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 3.3
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.7
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.9
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2.9
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 4.00e
OTHER INFORMATION: EXTENDED HIT: P15121, EVALUE 4.00e
OTHER INFORMATION: EST_HUMAN HIT: BE257210.1, EVALUE 5.
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                                                                                                                                                                                ORGANISM: Homo sapiens FEATURE:
                                                                                                                                                                                                                                 TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 09/608,408
                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 60/234,687 FILING DATE: 2000-09-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
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APPLICATION NUMBER: PCT/US01/00670
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Best Local S
Matches 6
                                                        PEATURE:
OTHER INFORMATION: MOTHER INFORMATION: E
OTHER INFORMATION: E
OTHER INFORMATION: E
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                                                                                                                                                                             SOFTWARE: Annomax Sequence Listing Engine vers.

IEQ ID NO 33351

IEQNITH: 69

TYPE: PRT
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APPLICANT:
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PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
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PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
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CURRENT FILING DATE: 2001-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY FILE REFERENCE: Acomica-X-1
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                                                                                                                                                     ORGANISM: Homo sapiens
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les 6; Conserv
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APPLICATION NUMBER: US 09/608,408
FILING DATE: 2000-06-30
APPLICATION NUMBER: US 09/774,203
FILING DATE: 2001-01-29
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APPLICATION NUMBER: PCT/US01/00670
FILING DATE: 2001-01-30
APPLICATION NUMBER: US 60/234,687
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FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00665
FILING DATE: 2001-01-30
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APPLICATION NUMBER: PCT/US01/00667
FILING DATE: 2001-01-30
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FILING DATE: 2000-09-27
APPLICATION NUMBER: PCT/US01/00666
                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: PCT/US01/00661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: PCT/US01/00662 FILING DATE: 2001-01-30
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FILING DATE: 2001-01-30
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: PCT/US01/00663
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5. US20020048763A1
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Chen, Wensheng
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N: MAP TO AC006160.9

N: EXPRESSED IN BT474, SIGNAL = 1.1

N: EXPRESSED IN HELA, SIGNAL = 1.2

N: EXPRESSED IN BRAIN, SIGNAL = 1.3

N: EXPRESSED IN PLACENTA, SIGNAL = 0.6

N: EXPRESSED IN HEL100, SIGNAL = 1.1

N: EXPRESSED IN FETAL LIVER, SIGNAL =
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Pred. No.
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RESULT 10
US-09-815-242-12867
US-09-815-242-12867, Application US,
Sequence 12867, Application US,
Patent No. US20020061569A1
GENERAL INFORMATION:
APPLICANT: Haselbeck, Robert
APPLICANT: Oblisen, Kari L.
APPLICANT: Zyskind, Judith W
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                                                                                                                                                                                                                                                                                                                              ; ORGANISM: Staphylococcus aureus US-09-815-242-12433
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TITLE OF INVENTION: Identification of Essent
TITLE OF INVENTION: Identification of Essent
TITLE OF INVENTION: Prokaryotes
FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-26
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                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 12433
LENGTH: 117
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OTHER INFORMATION: E
OTHER INFORMATION: S
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PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID I
SOFTWARE: FastSEQ
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PRIOR FILLING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILLING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILLING DATE: 2000-12-22
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TYPE: PRT
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Zyskind, Judith
Wall, Daniel
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                                                                                                                                                                                                                                                         Conservative
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IN ADULT LIVER, SIGNAL = 1

IN HEART, SIGNAL = 0.82

HIT: BE168080.1, EVALUE 4.00e-04

HIT: P25386, EVALUE 2.00e-03
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Pred. No. 13;
0; Mismatches
                                                                                                                                                                                                                                                                          Score 32;
Pred. No.
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13;
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23;
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US/09815242

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Daniel

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TITLE OF INVENTION: Identification of Essential Genes in TITLE OF INVENTION: Prokaryotes PILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR PILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-26
PRIOR PILING DATE: 2000-05-36
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR PILING DATE: 2000-11-27
PRIOR PILING DATE: 2000-11-27
PRIOR PILING DATE: 2000-11-27
PRIOR PILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR PILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
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US-09-815-242-12867
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CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR APPLICATION NUMBER: 60/207,727
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Best Local Similarity
Thehes 7; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari L.
APPLICANT: Zyskind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T
APPLICANT: Xu, H. Howard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 13094, Application US/09815242 Patent No. US20020061569A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 12867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/269,308 PRIOR FILING DATE: 2001-02-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 14110
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Xu, H. Howard
IITLE OF INVENTION: Identification of Essential Genes
IITLE OF INVENTION: Prokaryotes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
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FILING DATE: 2000-12-22
APPLICATION NUMBER: 60/269,308
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ohlsen, Kari L.
Zyskind, Judith W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Yamamoto, Robert T.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Trawick, John D.
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70.0%;
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Pred. No.
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RESULT 13
US-09-729-674-158
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; ORGANISM: Homo sapiens
US-09-789-561-191
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US-09-815-242-13094
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/789,561
CURRENT FILING DATE: 2001-02-22
PRIOR APPLICATION NUMBER: PCT/US00/24008
PRIOR FILING DATE: 2000-08-31
PRIOR APPLICATION NUMBER: 60/152,317
PRIOR FILING DATE: 1999-09-03
PRIOR APPLICATION NUMBER: 60/152,315
PRIOR FILING DATE: 1999-09-03
PRIOR FILING DATE: 1999-09-03
PRIOR FILING DATE: 1999-09-03
PRIOR FILING DATE: 1999-09-03
PRIOR FILING DATE: 1999-09-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: Pate SEQ ID NO 191
LENGTH: 142
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SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 13094
LENGTH: 117
TYPE: PRT
                                                                                                                                                                                                                                                                                                            Sequence 158, Application US/09729674
Patent No. US20010039335A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 191, Application US/09789561 Patent No. US20020064818A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity Matches 7; Conserv
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Best Local Similarity
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CURRENT APPLICATION NUMBER: US/09/729,674
CURRENT FILING DATE: 2000-12-04
                         APPLICANT: Genetics Institute, Inc.
TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING
FILE REFERENCE: 6055-64X
                                                                                                                                                                                                                                                                          APPLICANT: Jacobs, Kenneth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: FILE REFERENCE: PZO
                                                                                                                                                                               APPLICANT:
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                                                                              Clark, Hilary
Fechtel, Kim
                                                                                                             Steininger II, Robert
Spaulding, Vikki
Wong, Gordon G.
                                                                                                                                                              Agostino, Michael J
                                                                                                                                                                            Merberg, David
Treacy, Maurice
                                                                                                                                                                                                                             Collins-Racie, Lisa
                                                                                                                                                                                                                Evans, Cheryl
                                                                                                                                                                                                                                              LaVallie, Edward R.
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Pred. No.
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Pred. No. 28;
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Sequence 23, Application US/10029009

Patent No. US20020164617A1

GENERAL INFORMATION:

APPLICANT: Felsch, Jason S.

APPLICANT: Annis, David Allen

APPLICANT: Kalghaegi, Krishna

APPLICANT: Nash, Huw M.

TITLE OF INVENTION: Affinity Selection-Based Screening of Hydrophobic Proteins

FILE REFERENCE: 111025_173 US2

CURRENT APPLICATION NUMBER: US/10/029,009

CURRENT FILING DATE: 2002-03-28

PRIOR APPLICATION UNUMBER: US 60/256,970

PRIOR APPLICATION UNUMBER: US 60/256,970

PRIOR PRIOR DATE: 2000-12-29

NWMBER OF SEQ ID NOS: 34

SOPTWARE: PastSEQ for Windows Version 4.0

SEQ ID NO 23

LENGTA: 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 608
TYPE: PRT
ORGANISM: Rat
US-10-029-009-11
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; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 283
; SOFTWARE: PATCHIIN Ver. 2.0
; SEQ ID NO 158
; LENGTH: 586
; TYPE: PRT
; ORGANISM: Homo Bapiens
; PEATURE:
; NAME/KEY: UNSURE
; COCATION: (286)
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US-10-029-009-23
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US-10-029-009-11
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CURRENT APPLICATION NUMBER: US/10/029,009
CURRENT FILING DATE: 2002-03-28
PRIOR APPLICATION NUMBER: US 60/258,970
PRIOR FILING DATE: 2000-12-29
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 69.6%;
Best Local Similarity 60.0%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 11, Application U:
Patent No. US20020164617A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 69.6%;
Best Local Similarity 60.0%;
Matches 6; Conservative
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APPLICANT: Annis, David Allen
APPLICANT: Kalghatgi, Krishna
APPLICANT: Nash, Huw M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            469 KTRSQITKRK 478
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Pred. No. 1.2e+02;
3; Mismatches 1
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; TYPE: PRT; ORGANISM: Rat ...
; ORGANISM: Rat ...
US-10-029-009-23

Query Match 69.6%; Score 32; DB 9; Length 626; Best Local Similarity 60.0%; Pred. No. 1.3e+02; Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps Qy 1 KLKSQLVKRK 10

Qy 1 KLKSQLVKRK 10

| | | | | | | | | | Db 485 KTRSQITKRK 494
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Search completed: February Job time : 9 secs

8, 2003, 10:52:11

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Minimum
Maximum
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Perfect score:
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Maximum Match 100%
Listing first 45 summaries
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DB seq length: 2000000000
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46
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                        Gapop 10.0 , Gapext 0.5
: /cgn2_6/ptodata/1/paa/USO6_COMB.pep:*
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   /cgn2_6/ptodata/1/paa/USO6_COMB.pep:*
   /cgn2_6/ptodata/1/paa/USO6_COMB.pep:*
   /cgn2_6/ptodata/1/paa/USO81_COMB.pep:*
   /cgn2_6/ptodata/1/paa/USO82_COMB.pep:*
   /cgn2_6/ptodata/1/paa/USO83_COMB.pep:*
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   /cgn2_6/ptodata/1/paa/USO86_COMB.pep:*
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   /cgn2_6/ptodata/1/paa/USO92_COMB.pep:*
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Copyright (c) 1993 - 2003 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

0	5	4	ω	N	H	Result No.
43	43	43	46	46	46	Score
93.5	93.5	93.5	100.0	100.0	100.0	Query Match Length DB ID
10	10	10	10	10	10	Length
18	15	7	23	20	7	: B
US-09-424-292-6	US-09-169-077-2	US-08-318-892B-4	US-09-978-309A-31	US-09-685-010-31	US-08-318-892-4	Query Query Match Length DB ID
Sequence 6, Appli	Sequence 2, Appli	Sequence 4, Appli	Sequence 31, Appl	Sequence 31, Appl	Sequence 4, Appli	Description

# ALIGNMENTS

STATE: N.Y.  COUNTRY: USA ZIP: 1020 ZIP: 1020 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: WordPerfect 6.1 CURRENT APPLICATION NUMBER: US/08/318,892 FILING DATE: 1-DEC-1994 CLASSIFICATION: 536 ATTORNEY/AGENT INFORMATION: NAME: Pierri, Margaret A REGISTRATION NUMBER: 30,709 REFERENCE/DOCKET NUMBER: SIM-8	RESULT 1  US-08-318-992-4  (Sequence 4, Application US/08318892  ; Sequence 4, Application US/08318892  ; GENERAL INFORMATION:  APPLICANT: Turley, Eva A  ; TITLE OF INVENTION: FOR HYALURONAN RECEPTOR (RHAMM = RECEPTOR  TITLE OF INVENTION: FOR HYALURONAN MEDIATED MOBILITY) AND HYALURONAN BINDING  ; TITLE OF INVENTION: PEPTIDES  ; NUMBER OF SEQUENCES: 29  ; CORRESPONDENCE ADDRESS:  ; ADDRESSEB: C/O FISH & NEAVE  ; STREET: 1251 Avenue of the Americas  ; CITY: New York

TELECOMMUNICATION INFORMATION:

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CURRENT APPLICATION NUMBER: US/09/685,010
CURRENT FILING DATE: 2001-05-23
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 31
LENGTH: 10
TYPE: PRT
TYPE: PRT
ORGANISM: Artificial Sequence
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Best Local Similarity
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                                             APPLICANT: Pastrak, Aleksandra
APPLICANT: Turley, Eva A.
TITLE OF INVENTION: Compositions and Methods for Treating Cellular Response to
TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders Regulated by
TITLE OF INVENTION: Hyaladherin and Hyaluronans
FILE REFERENCE: 03352-010
CURRENT APPLICATION NUMBER: US/09/978,309A
CURRENT FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: US 09/685,010
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR APPLICATION NUMBER: US 09/541,522
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APPLICANT: Cruz, Tony F.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
TITLE OF INVENTION: CELLULAR RESPONSE TO INJURY AND OTHER PROLIFERATING CELL
TITLE OF INVENTION: DISORDERS REGULATED BY HYALADHERIN AND HYALJURONANS
FILE REFERENCE: 910130.401C1
                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Cruz, Tony
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LENGTH: 10 amino acids
TYPE: amino acid
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STRANDEDNESS: Bin
STRANDEDNESS: Bin
Francingy: linear
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SEQ ID NOS: 84
FastSEQ for Windows Version 4.0
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Pred. No. 0.11;
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US-09-169-077-2
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; OTHER INFORMATION: Peptide composition that binds a hyalauronan US-09-978-309A-31
                                                                                                                                                                                                                                 US-08-318-892B-4
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            Sequence 2, Application US/09169077 GENERAL INFORMATION:
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Matches 9; Conserv
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GENERAL INFORMATION:
APPLICANT: Turley
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Best Local Similarity
Matches 10; Conserv
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LENGTH: 10
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                                                                                                                                                                                                                                                                                                                                        TELEFAX: (212) 596-9090 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
APPLICANT:
                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

COMPUTER: FORM PC-DOS/MS-DOS

OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                              MOLECULE TYPE: peptide
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                                                                                                                                                                                                                                                                         TYPE: amino a
                                                                                                                                                                                                                                                                TOPOLOGY:
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STREET: 1251 Avenue of the Americas
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amino acid
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                                                                                                                                                                                  Score 43;
Pred. No.
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Pred. No.
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TITLE OF INVENTION:

HUMAN HYALURONAN RECEPTOR 52

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Query Match
Best Local Similarity
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US-09-424-292-6
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                                                                                                                             US-09-424-292-15
                                                                                                                                                RESULT 7
                                                                                                                                                                                                                                                                                                                                                     ; OTHER INFORMATION: Synthetic US-09-424-292-6
                                                                                         Sequence 15, Application US/09424292 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 6
LENGTH: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 6, Application US/09424292
GENERAL INFORMATION:
APPLICANT: Turley, Eva A
TITLE OF INVENTION: Improved Delivery of Disease Modifiers
                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                              Query Match
APPLICANT: Turley, Eva A
TITLE OF INVENTION: Improved Delivery of Disease Modifiers
FILE REFERENCE: 205375
CURRENT APPLICATION NUMBER: US/09/424,292
CURRENT FILING DATE: 2000-07-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT FILING DATE: 2000-07-06
PRIOR APPLICATION NUMBER: PCT/CA98/00448
PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: CA 2,205,771
PRIOR APPLICATION 1997-05-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: 205375
CURRENT APPLICATION NUMBER: US/09/424,292
CURRENT FILING DATE: 2000-07-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: GB 9607441.4
PILING DATE: 10-APR-1996
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/09/169,077
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/CA97/0
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                            Local Similarity 90.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
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Pred. No. 0.42;
1; Mismatches
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Pred. No. 0.42;
1; Mismatches
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CURRENT APPLICATION NUMBER: US/09/424,292
CURRENT FILING DATE: 2000-07-06
PRIOR APPLICATION NUMBER: PCT/CA98/00448
PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: CA 2,205,771
PRIOR APPLICATION NUMBER: CA 2,205,771
PRIOR FILING DATE: 1997-05-22
NUMBER OF SEQ ID NOS: 36
SOPTWARE: Patentin version 3.1
SEQ ID NO 28
LENGTH: 10
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Best Local Similarity
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                                                                                                                                                                                           ; Sequence 10, Application
; GENERAL INFORMATION:
; APPLICANT: Turley, Ev
; TITLE OF INVENTION: F
TITLE OF INVENTION: F
TITLE OF INVENTION: F
TITLE OF INVENTION: F
INTERIOR OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                    RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-424-292-28
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 36
SOFTWARE: Patentin version 3.1
SEQ ID NO 15
LENGTH: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity
Matches 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
COUNTR..
ZIP: 10020
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Turley, Eva A
TITLE OF INVENTION: Improved Delivery of Disease Modifiers
FILE REFERENCE: 205375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: CA 2,205,771
PRIOR FILING DATE: 1997-05-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
OTHER INFORMATION: Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: Synthetic
                                                                                                                                                                           CORRESPONDENCE ADDRESS
                                                                                                            CITY: New York
STATE: N.Y
                                                                                                                                              STREET:
                                                                                                                                                             ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 KLKSQLVKRK 10
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                                                                                                       N.Y
                                                                                                                                                                                                                                                                                                   Application US/08318892
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                                                                                                                                          E: c/o FISH & NEAVE
1251 Avenue of the Americas
                                                                                                                                                                                                                                                                 Turley, Eva A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 43; DB 1
Pred. No. 0.42;
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Pred. No. 0.42;
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Best Local Similarity
The 9; Conserve
                                                               US-08-318-892B-10
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                                                                                                                                                                     NAME: Pierri, Margaret A
REGISTRATION NUMBER: 30709
REFERENCE/DOCKET NUMBER: SIM-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9000
TELEPHAX: (212) 596-9090
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 10, Application US/08318892B
GENERAL INFORMATION:
APPLICANT: Turley, Eva A
TITLE OF INVENTION: HYALURONAN REC
TITLE OF INVENTION: HYALURONAN MEI
NUMBER OF SEQUENCES: 41
Best Local Similarity
                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (212) 596-9090
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Pierri, Margaret A
REGISTRATION NUMBER: 30,709
REFERENCE/DOCKET NUMBER: SIM-8
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/0!
FILING DATE: 1-DEC-1994
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
                                                                                  MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/0
FILING DATE: 1-DEC-1994
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS
                                                                                                                                     TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: WordPerfect 6.1
                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: N.Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: New York
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1251 Avenue of the Americas
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                                                                                                     linear
                                                                                  peptide
                                                                                                                  single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         93.5%;
           93.5%;
90.0%;
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           Score 43; DB 7;
Pred. No. 0.47;
                            Length 11;
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US-09-978-309A-24
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                                                                                                                                                     US-09-978-309A-24
                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/09/978,309A
CURRENT FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: US 09/685,010
PRIOR FILING DATE: 2000-10-05
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR APPLICATION NUMBER: US 60/127,457
PRIOR APPLICATION NUMBER: US 60/127,457
PRIOR FILING DATE: 1999-04-01
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US-09-685-010-24
                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 84
SOFTWARE: FRANSEQ for Windows Version 4.0
SEQ ID NO 24
LENGTH: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
TITLE OF INVENTION: CELLULAR RESPONSE TO INJURY AND OTHER PROLIFERATING CELL
TITLE OF INVENTION: DISORDERS REGULATED BY HYALADHERIN AND HYALURONANS
FILE REFERENCE: 910130.401C1
CURRENT APPLICATION NUMBER: US/09/685,010
CURRENT FILING DATE: 2001-05-23
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 24
LENGTH: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 24, Application US/09978309A GENERAL INFORMATION:
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                                                                           Matches
                                                                                                             Query Match
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Best Local Similarity 90.
Matches 9; Conservative
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                                                                         Best Local Similarity
Matches 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Cruz, Tony
APPLICANT: Pastrak, Aleksandra
APPLICANT: Turley, Eva A.
APPLICANT: Turley, Eva A.
TITLE OF INVENTION: Compositions and Methods for Treating Cellular Response to
TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders Regulated by
TITLE OF INVENTION: Hyaladherin and Hyaluronans
FILE REFERENCE: 033352-010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Turley, Eva A. APPLICANT: Cruz, Tony F.
                                                                                                                                                                   LENGTH: 11
TYPE: PRT
ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Homo sapien
                                   1 KLKSQLVKRK 10
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1 KLRSQLVKRK 10
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                                                                         Conservative
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                                                                                         93.5%;
                                                                       Score 43; DB 2
Pred. No. 0.47;
1; Mismatches
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Pred. No. 0.
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                                                                                                               DB 23;
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                                                                                                               Length 11;
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                                                                           Indels
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                                                                       Gaps
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RESULT 13

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FILE REFERENCE: 033352-010
CURRENT APPLICATION NUMBER: US/09/978,309A
CURRENT FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: US 09/685,010
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR FILING DATE: 2000-04-03
PRIOR FILING DATE: 2000-04-03
PRIOR APPLICATION NUMBER: US 60/127,457
PRIOR PILING DATE: 1999-04-01
NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSEQ for Windows Version 4.0
SEG ID NO 51
LENGTH: 32
TYPE: PRT
RESULT 15
US-09-78-309A-82
; Sequence 82, Application US/09978309A
; GENERAL INFORMATION:
; APPLICANT: Cruz, Tony
                                                                                                                                                                   유
                                                                                                                                                                                                        S
                                                                                                                                                                                                                                                                                                                                       ; FEATURE:
; OTHER INFORMATION: Peptide used in competition binding assay
US-09-978-309A-51
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APPLICANT: Cruz, Tony F.
APPLICANT: Cruz, Tony F.
APPLICANT: Cruz, Tony F.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
TITLE OF INVENTION: CELLULAR RESPONSE TO INJURY AND OTHER PROLIFERATING CELL
TITLE OF INVENTION: DISORDERS REGULATED BY HYALADHERIN AND HYALURONANS
FILE REFERENCE: 910130.401C1
CURRENT APPLICATION NUMBER: US/09/685,010
CURRENT FILING DATE: 2001-05-23
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 51
LECTION 12
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Matches
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                                                                                                                                                                                                                                                                                                Query Match
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APPLICANT: Cruz, Tony
APPLICANT: Pastrak, Aleksandra
APPLICANT: Turley, Eva A.
TITLE OF INVENTION: Compositions and Methods for Treating Cellular Response to
TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders Regulated by
TITLE OF INVENTION: Hyaladherin and Hyaluronans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Unknown
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: Peptide used in competition binding assay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ENGTH: 32
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nes 9; Conserv
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                                                                                                                                                                                                                                                                       93.5%;
                                                                                                                                                                                                                                                   1; Mismatches
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Pred. No. 1.6;
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Search completed: February Job time: 133 secs
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                                                                                                                                                                                                                           ; ORGANISM: Mus musculus US-09-978-309A-82
                                                                                                                                                                                                                                                                                                                                                      FILE REFERENCE: 033352-010
CURRENT APPLICATION NUMBER: US/09/978,309A
CURRENT FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: US 09/685,010
PRIOR FILING DATE: 2000-10-05
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR FILING DATE: 2000-04-03
PRIOR APPLICATION NUMBER: US 60/127,457
PRIOR APPLICATION NUMBER: US 60/127,457
PRIOR FILING DATE: 1999-04-01
                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 82
LENGTH: 32
                                                                                                                                                    Matches
                                                                                                                                                                      Best
                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Pastrak, Aleksandra
APPLICANT: Turley, Eva A.
TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders Regulated by
TITLE OF INVENTION: Hyaladherin and Hyaluronans
                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                              Local Similarity nes 9; Conserv
                                                                          23 KLRSQLVKRK 32
                                                                                                             1 KLKSQLVKRK 10
                                                                                                                                                  Conservative
                                                                                                                                                                    93.5%;
                 8, 2003, 10:50:49
                                                                                                                                                                    Score 43;
Pred. No.
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       protein search, using sw model
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1: /cgn2_6/ptodata/2/paa/PCT_NEW_COMB.pep:*
2: /cgn2_6/ptodata/2/paa/USO6_NEW_COMB.pep:*
3: /cgn2_6/ptodata/2/paa/USO7_NEW_COMB.pep:*
4: /cgn2_6/ptodata/2/paa/USO9_NEW_COMB.pep:*
5: /cgn2_6/ptodata/2/paa/USO9_NEW_COMB.pep:*
6: /cgn2_6/ptodata/2/paa/USO9_NEW_COMB.pep:*
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Maximum Match 100%
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    8, 2003,
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                US-10-310-154-439
US-60-434-832-7073
US-10-017-161-1700
US-10-294-060-28
US-10-284-060-28
US-10-284-060-28
US-10-284-060-26
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54.053 Million cell updates/sec
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49554, A
49554, A
5149, Ap
49560, A
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49560, A
49560, A
49563, A
49563, A
514463, A
514663, A
51466
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26, App
10373,
19554,
49554,
1662, A
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Sequence 80, Appl Sequence 5248, App Sequence 2042, App Sequence 4056, Appl Sequence 11254, Appl Sequence 11254, Appl Sequence 6128, Appl Sequence 6648, Appl Sequence 6648, Appl Sequence 639, Appl Sequence 639, Appl Sequence 61733, Appl	Sequence 4232, Ap Sequence 4232, Ap Sequence 4086, Ap

## ALIGNMENTS

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RESULT 1
US-10-310-154-439
; Sequence 439, Application US/10310154
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; APPLICANT: Chomet, Paul S.
; APPLICANT: Adams. Thomas H
APPLICANT
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APPLICANT:
APPLICANT:
                                                                                                                                                  Madson, Linda L.
Malloy, Kathleen A.
McKiel, Christine L.
Miller, Philip W.
Padmayathi, Manchikanti
                                                                                                                                                                                                                                                                                                                                                         Duff, Stephen M.
Galligan, Meghan M.
Hinchey, Brenda S.
Huang, Shihshieh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chomet, Paul S. Adams, Thomas H Ruff, Thomas G.
           Wang, Haiyun
Xin, Zhanguo
Xu, Nanfei
Yang, Chunzhi
Zeng, Xiaoping
Zhang, Qiang
Zhao, Yajuan
                                                                                                                                                                                                                Liu, Jingdong
Lu, Bin
Luethy, Michael M.
Lund, Adrian
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Ahrens, Jeffrey
Ball, James A.
                                                                                                Vidya,
                                                                                                    Tennesen, Dan
Vidya, K.R.
                                                                                                                          Parnell, Laurence D. Start, William G.
                                                                                                                                                                                                                                                                                           Kretzmer, Keith A
Laccetti, Lucille
Lai, Chao-Qiang
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Deikman, Jill
Deng, Molian
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bell, Brin
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                                                                                                                                                                                                                                                      Jie-Yi
Jingdong
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-017-161-1700
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US-60-434-832-7073
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US-10-310-154-439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Bussey, Howard
TITLE OF INVENTION: Nucleic Acids Encoding Antifungal Drug Targets and Methods |
FILE REFERENCE: 10182-023-888
CURRENT APPLICATION NUMBER: US/60/434,832
CURRENT FILING DATE: 2002-12-19
NUMBER OF SEQ ID NOS: 7137
SOFTWARE: Patentin version 3.1
SEQ ID NO 7073
SEQ ID NO 7073
SEQ ID NO 7073
SEQ ID NO 7073
CORGANISM: Candida albicans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Gene Sequences and Uses Thereof in Plants FILE REFERENCE: 38-15(52796)B

CURRENT APPLICATION NUMBER: US/10/310,154

CURRENT FILING DATE: 2002-12-04

PRIOR APPLICATION NUMBER: 60/337,358

PRIOR FILING DATE: 2001-12-04

NUMBER OF SEQ ID NOS: 736

SEQ ID NO 439

LENGTH: 242

TYPE: PRT
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Best Local Similarity
Matches 8; Conserv
                                                                                                                                                                                                                                                                                                                                     Sequence 1700,
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                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                               APPLICANT: ABURATANI, HIROYUKI
TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
FILE REFERENCE: 084335/0152
CURRENT APPLICATION NUMBER: US/10/017,161
CURRENT FILING DATE: 2002-12-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -60-434-832-7073
                                                                                          PRIOR APPLICATION NUMBER: JP 2001/246789
PRIOR FILING DATE: 2001-06-18
NUMBER OF SEQ ID NOS: 2430
SOFTWARE: Patentin Ver. 2.1
                                                                                                                                                                                                                                                        APPLICANT: SUWA, MAKIKO
APPLICANT: ASAI, KIYOSHI
APPLICANT: AKIYAMA, YUTAKA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
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APPLICANT: Jiang, Bo
APPLICANT: Boone, Charles
                                                                                                                                                                                                                                                                                                                                                                                                                                 245 LNSQLVKRK 253
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les 8; Conserv
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Pred. No. 11;
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 5
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US-10-294-025-592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-294-025-592
                                                                                                                                                                                                                                                                                                                                                                               Sequence 28, Application US/10284060
GENERAL INFORMATION:
APPLICANT: Ensign, Jerald C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 7; Conserv
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                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PATEN: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION UMBER: US/10/284,060
FILING DATE:
CLASSIFICATION:
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APPLICANT:
APPLICANT:
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APPLICANT:
APPLICANT:
APPLICANT:
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TITLE OF INVENTION: Insecticidal Protein Toxins from
TITLE OF INVENTION: Photorhabdus
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
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                                                                                                                                     COUNTRY: US
ZIP: 46268
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CITY: Indianapolis
STATE: IN
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9330 Zionsville Road
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Bowen, David J
Petell, James
Fatig, Raymond
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Merlo, Donald
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ffrench-Constant, Richard
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77.8%;
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60.0%;
 US 08/063,615
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Pred. No.
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Pred. No. 5
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FILING DATE:

18-MAY-1993

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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
             COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/284,060
FILING DATE:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 317-337-4846
                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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ATTORNEY/AGENT INFORMATION:
NAME: BOTUCKI, Andrea T.
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APPLICATION NUMBER: US 08
FILING DATE: 28-AUG-1996
PRIOR APPLICATION DATA:
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APPLICATION NUMBER: US 08/608,423
FILING DATE: 28-FEB-1996
                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Insecticidal TITLE OF INVENTION: Photorhabdus
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APPLICATION NUMBER:
FILING DATE: 28-FEB-
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Local Similarity 70.0%;
hes 7; Conservative
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TYPE: amino acid
TOPOLOGY: linear
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CLASSIFICATION:
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9330 Zionsville Road
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Roberts, Jean L
Rocheleau, Thomas A
VENTION: Insecticidal Protein Toxins from
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ffrench-Constant, Richard
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Bowen, David J
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Fatig, Raymond
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06-NOV-1995
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Pred. No. 57;
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; LENGTH: 627 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-10-284-060-28
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             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA;
                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: DowElanco
STREET: 9330 Zionsville Road
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CITY: Indianapolis
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REGISTRATION NUMBER: 33:
REFERENCE/DOCKET NUMBER:
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APPLICATION NUMBER:
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Fatig, Raymond
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Bowen, David J
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70.0%;
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Matches
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SEQUENCE CHARACTERISTICS:
LENGTH: 627 amino acids
TYPE: amino acids
TYPE: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 26, Application US/10284060 GENERAL INFORMATION:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                        APPLICANT: Orr, Gregory L
APPLICANT: Merlo, Donald J
APPLICANT: Roberts, Jean L
APPLICANT: RocheLeau, Thomas A
TITLE OF INVENTION: Insecticidal Protein Toxins from
TITLE OF INVENTION: Photorhabdus
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ADDRESSEE: DowElanco
                                                                                                                                                                                               NUMBER OF SEQUENCES:
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REGISTRATION NUMBER: 33651
REFERENCE/DOCKET NUMBER: 50301E
TELECOMMUNICATION INFORMATION:
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ATTORNEY/AGENT INFORMATION:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/395,497
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CLASSIFICATION DATA:
PRIOR APPLICATION NUMBER: US 08/063,615
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PRIOR APPLICATION DATA:
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                                                                                                                                CITY: Indianapolis
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Bowen, David J
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28-FEB-1996
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Pred. No.
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Best Local S
Matches 7
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COUNTRAL COUNTRAL COUNTRAL COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPER: IBM PC compatible
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INFORMATION FOR SEQ ID NO:
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APPLICATION NUMBER: US 08/395,497
FILING DATE: 28-FEB-1995
PRIOR APPLICATION NUMBER: US 60/007,255
APPLICATION NUMBER: US 60/007,255
                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                 TITLE OF INVENTION: Insecticidal TITLE OF INVENTION: Photorhabdus NUMBER OF SEQUENCES: 88 CORRESPONDENCE ADDRESS:
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APPLICANT:
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FILING DATE: 28-FEB-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/705,484
FILING DATE: 28-AUG-1996
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APPLICATION NUMBER: US 08/063,615
PILING DATE: 18-MAY-1993
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APPLICATION NUMBER: US 08/743,699
FILING DATE: 06-NOV-1996
ATTORNEY/AGENT INFORMATION:
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PRIOR APPLICATION DATA:
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APPLICATION NUMBER: US/10/284,060
FILING DATE:
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                                                                                                                              STREET: 9330 Zions CITY: Indianapolis
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REGISTRATION NUMBER: 33
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Rocheleau, Thomas A
VENTION: Insecticidal Protein Toxins from
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Fatig, Raymond
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Bowen, David J
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Pred. No. 1.2e+0
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OPERATING SYSTEM: PC-DOS/MS-DOS

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RESULT 10
US-10-284-060-26
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INFORMATION FOR SEQ ID NO:
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APPLICANT:
APPLICANT:
APPLICANT:
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                                                                                                     CORRESPONDENCE ADDRESS:
                                                                                                                                  APPLICANT: Rocheleau, Thomas A
TITLE OF INVENTION: Insecticidal Protein Toxins from
TITLE OF INVENTION: Photorhabdus
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ATTORNEY/AGENT INFORMATION:
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APPLICATION NUMBER:
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APPLICATION NUMBER: US 60/007,255
FILING DATE: 06-NOV-1995
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                                                                                                                      NUMBER OF SEQUENCES:
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COMPUTER READABLE FORM:
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                       COUNTRY:
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                                                       CITY: Indianapolis
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Similarity 70.0%;
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Bowen, David J
Petell, James
Fatig, Raymond
Schoonover, Sue
ffrench-Constant, Richard
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Roberts, Jean L
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Pred. No. 1.2e+02;
2; Mismatches 1
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APPLICANT: Penn, Sharron G.

APPLICANT: Rank, David R.

APPLICANT: Hanzel, David K.

APPLICANT: Chen, Wensheng

TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR TITLE OF INVENTION: ANALYSIS OF GENE EXPRESSION IN BT 474

FILE REFERENCE: PB 0004 WO 8

CURRENT APPLICATION NUMBER: US/10/203,138A

CURRENT APPLICATION NUMBER: US 60/180,312

PRIOR APPLICATION NUMBER: US 60/180,312

PRIOR APPLICATION NUMBER: US 60/207,456

PRIOR FILING DATE: 26 May 2000 (26.05.00)

PRIOR FILING DATE: 03 AUGUST 2000 (28.05.00)

PRIOR APPLICATION NUMBER: US 99/632,366

PRIOR APPLICATION NUMBER: US 99/632,36

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US-10-203-138A-10373
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GENERAL INFORMATION:
APPLICANT: Molecular Dynamics,
APPLICANT: Penn, Sharron G.
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Best Local Similarity
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FILING DATE: 28-AUG-1996
FRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/
FILING DATE: 06-NOV-1996
ATTORNEY/AGENT INFORMATION:
NAME: BOTUCKI, Andrea T.
REGISTRATION UNBER: 33651
REFERENCE/DOCKET NUMBER: 5
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LENGTH: 1189 amino aci
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
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06-NOV-1995
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Pred. No. 1.2e+02;
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US-09-724-676-49554
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                                                                                        Sequence 49554, Application US/09724676A
GENERAL INFORMATION:
APPLICANT: Compugen LTD
TITLE OF INVENTION: Variants of alternative splicing
FILE REFERENCE: 129181.4 Compugen
CURRENT APPLICATION NUMBER: US/09/724,676A
CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222
SOFTWARE: Patentin version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 49554, Application US/09724676
GENERAL INFORMATION:
APPLICANT: Compugen LTD
TITLE OF INVENTION: Variants of alternative splicing
FILE REFERENCE: 129181.4 Compugen
CURRENT APPLICATION NUMBER: US/09/724,676
CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222
SOFTWARE: PatentIn version 3.2
SEQ ID NO 49554
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NUMBER OF SEQ ID NOS: 15438

SOPTWARE: Molecular Dynamics Sequence Listing Engine SEQ ID NO 10373

LENGTH: 69
                                                       SEQ ID NO 49554
LENGTH: 99
-09-724-676A-49554
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PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 21 September 2000 (21.09.00)
PRIOR APPLICATION NUMBER: US 09/608,408
                   TYPE, PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 99
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
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OTHER INFORMATION:
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87.5%;
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Pred. No. 12;
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Pred. No.
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US-09-950-084-5149; Sequence 5149, Application US/09950084
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                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: US 09/417,811
PRIOR FILING DATE: 1999-10-14
PRIOR PELICATION NUMBER: US 09/353,718
PRIOR PELICATION NUMBER: US 09/256,557
PRIOR APPLICATION NUMBER: US 09/266,557
PRIOR FILING DATE: 1999-03-11
PRIOR APPLICATION NUMBER: US 09/266,556
PRIOR FILING DATE: 1999-03-11
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PRIOR APPLICATION NUMBER: US 09/266,555
PRIOR APPLICATION NUMBER: US 09/266,555
PRIOR APPLICATION NUMBER: US 09/266,555
PRIOR FILING DATE: 1999-03-11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Goorge H. Miller
APPLICANT: Roberta S. Hare
APPLICANT: Karen J. Shaw
TITLE OF INVENTION: Staphylococcus aureus Related Compositions and Methods
FILE REFERENCE: 1034/16263US2
CURRENT APPLICATION NUMBER: US/09/950,084
CURRENT FILING DATE: 2001-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: George H. Shimer, Jr.
APPLICANT: George H. Miller
APPLICANT: Roberta S. Hare
               PRIOR APPLICATION NUMBER: US 09/036,720
PRIOR FILING DATE: 1998-03-06
PRIOR APPLICATION NUMBER: US 09/036,338
PRIOR FILING DATE: 1998-03-06
                                                                                                     PRIOR APPLICATION NUMBER: US 09/266,541
PRIOR TILING DATE: 1999-03-11
PRIOR APPLICATION NUMBER: US 09/037,934
PRIOR FILING DATE: 1998-03-10
                                                                                                                                                                                                PRIOR APPLICATION NUMBER: US 09/266,542 PRIOR FILING DATE: 1999-03-11
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Prior Application data removed -
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; SEQ ID NO 5149
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-950-084-5149

Query Match
Best Local Similarity 70.0%; Pred. No. 14;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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Search completed: February 8, 2003, 10:51:43

Job time: 16 secs
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Result
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3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*

4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*

5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

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             US-08-477-831C-38
US-08-407-217A-3
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US-08-477-831C-11
US-08-801-244-4
US-09-605-785-592
US-07-725-331-32
PCT-US91-05047-32
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PCT-US93-08528-11
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US-09-133-653-7
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Sequence 38 Appli
Sequence 3, Appli
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KLKSQLVKRK   :       KLRSQLVKRK	h Simi 9;	T1  A77-831C-38  uence 38, Application  NERAL INFORMATION:  APPLICANT: TURLEY, E  APPLICANT: SHUWEN, N:  UMBER OF SEQUENCES:  CORRESPONDENCE ADDRESS  ADDRESSEE FISH &  STREET: 1251 AVENU  CITY: NEW YORK  COUNTRY: U.S.A.  ZIP: 10020-1104  COMPUTER NEW YORK  COMPUTER IBM PC  COMPUTER: IBM PC  COMPUTER: PACENTIN  COMPUTER: PACENTIN  COMPUTER: ON TOWNER:  SOFTWARE: PACENTIN  COMPUTER: ON TOWNER:  SOFTWARE: PACENTIN  COMPUTERIN ON THE  SOFTWARE: PACENTIN  COMPUTERIN ON THE  COMPUTERIN ON THE  APPLICATION NUMBER:  FILING DATE: 07-JU  CLASSIFICATION INF  TELEPHONE: 212-596  TELEPHONE: 212-596  TELEPHONE: 212-596  TELEPHONE: 31 amino acid  STEANDEDNESS: sing  TOPOLOGY: linear  MOLECULE TYPE:  DESCRIPTION: /desc-  -477-831C-38		229 229 229 229 228 228 228 228 228 228
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	ore 43; DB 4; ed. No. 0.17; Mismatches	RECEPTOR PROTEIN RECEPTOR PROTEIN RECEPTOR PROTEIN RECEPTOR PROTEIN RECEPTOR PROTEIN RECEPTOR PROTEIN RECEPTOR PROTEIN RECEPTOR PROTEIN RECEPTOR PROTEIN RECEPTOR PROTEIN RECEPTOR PROTEIN RECEPTOR PROTEIN RECEPTOR PROTEIN	ALIGNMENTS	418-893D-24 459-146-3 459-065-3 477-831C-3 062-472B-26 1122-171D-8 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4 1-122-171D-4
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RESULT 3
US-08-700-178-3
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GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 477 amino acid
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NAME: Luther, Barbara J.
REGISTRATION NUMBER: 33954
REFERENCE/DOCKET NUMBER: PF-C
TELECOMMUNICATION INFORMATION:
TELECHONE: 415-855-0555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: amino acid
STRANDEDNESS: sinc
TOPOLOGY: linear
MOLECULE TYPE: prot
                                                                                APPLICANT: Hawkins, Phillip R.
APPLICANT: Wilde, Craig G.
APPLICANT: Wilde, Craig G.
APPLICANT: Seilhamer, Jeffrey J.
TITLE OF INVENTION: HYALURONAN RECEPTOR EXPRESSED IN HUMAN
TITLE OF INVENTION: UMBILICAL VEIN ENDOTHELIAL CELLS
                                                     CORRESPONDENCE ADDRESS
                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Hawkins, Phillip R.
APPLICANT: Wilde, Craig G.
APPLICANT: Seilhamer, Jeffrey J.
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                                     ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STREET: 3174 PO:
CITY: Palo Alto
STATE: CA
               STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
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CLONE: GI 53979
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FILING DATE: 10-MAR-1995
CLASSIFICATION: 435
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5. 5587301
Palo Alto
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             3174 Porter Drive
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                                   INCYTE PHARMACEUTICALS, INC
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US-08-995-654-3
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SEQUENCE CHARACTERISTICS:
FRIGTH: 477 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 3, Application US/08995654
Patent No. 6025138
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                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSEQ for Windows Version 2.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/995,654
FILING DATE: December 22, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/402,217
APPLICATION NUMBER: US 08/402,217
FILING DATE: MATCH 10, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
RAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0028-1 I
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION 1415-855-0555
                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT: Hawkins, Phillip R.
APPLICANT: Wilde, Craig
APPLICANT: Seilhamer, Jeffrey
TITLE OF INVENTION: HYALUROWAN RECEPTOR EXPRESSED IN HUMAN
TITLE OF INVENTION: UMBILICAL VEIN ENDOTHELIAL CELS
NUMBER OF SEQUENCES: 3
                CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: (
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LIBRARY: mouse
CLONE: GI 53979
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ODERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/700,178
FILING DATE: August 20, 1996
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MEDIUM TYPE: Floppy disk
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ADDRESSEE: Incyte Pharmaceuticals, Inc
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CITY: Palo Alto
STATE: CA
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TOPOLOGY: linear
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August 20, 1996
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Pred. No. 2.1;
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Best Local Similarity 90.0
Workches 9; Conservative
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Best Local Similarity
                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: 212-596-9000
TELEFAX: 212-596-9090
INFORMATION FOR SEQ ID NO: 2:
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SEQUENCE CHARACTERISTICS:
LENGTH: 477 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
NAME: PIERRI, MARGARET A.
REGISTRATION NUMBER: 30,709
REFERENCE/DOCKET NUMBER: SIM-10
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-596-9000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Patentin Rel. #1.0, ASCII CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,831C FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
APPLICATION: 514
                                                                                                                                        MOLECULE TYPE:
DESCRIPTION:
                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
LENGTH: 606 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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APPLICANT: ENTWISTLE, JOYCELYN
TITLE OF INVENTION: HYALURONAN RECEPTOR PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION: TELEPHONE: 650-855-0555
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  424 KLRSQLVKRK 433
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Rel ". TREETER PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING PATENTING 
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REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0028-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE: NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
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                                                                                                                                                                                                                 TOPOLOGY:
                                                                                                                                                                                                                                           STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 10020-1104
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                                                                                                                                                                                                                                                                            amino acid
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/desc = "RHAMM I protein"
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93.5%;
90.0%;
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Score 43; DB 4; Length 606; Pred. No. 2.6;
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                                                                                                                                                                                         US-08-801-344-4
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                                                                                                                                                      Sequence 4, Application US/08801344
Patent No. 6087140
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Matches 9; Conserv
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Rel. #1.0, ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,831C
FILLING DATE: 07-JUN-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: PIERRI, MARGARET A.
REGISTRATION NUMBER: 30,709
REFERENCE/DOCKET NUMBER: SIM-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                         APPLICANT: Camero
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: 11:
                                          APPLICANT: Shaw, Anita J.
APPLICANT: Altaras, Nedim B.
TITLE OF INVENTION: MICROBIAL PRODUCTION OF 1,2-PROPANEDIOL
TITLE OF INVENTION: FROM SUGAR
NUMBER OF SEQUENCES: 11
                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE:
DESCRIPTION:
CORRESPONDENCE ADDRESS:
ADDRESSEE: DeWitt Ross & Stevens S.C.
STREET: 8000 Excelsior Drive, Suite 401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 631 amino acids
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CORRESPONDENCE ADDRESS:
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APPLICANT: ENTWISTLE, JOYCELYN
TITLE OF INVENTION: HYALURONAN RECEPTOR PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: 212-596-9090
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                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
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                                                                                                                          Cameron, Douglas C.
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/desc = "RHAMM I-2a"
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                                                                                                                                                                                                                                                                                                                  1; Mismatches
                                                                                                                                                                                                                                                                                                                                 Score 43; 1
Pred. No. 2
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MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Rat lens aldose reductase
US-08-801-344-4
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Best Local Similarity
"hes 7; Conserve
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NAME: Sara, Charles S.
REFERENCE/DOCKET NUMBER: 0982
TELECONMUNICATION INFORMATION:
TELEPHONE: 608-831-2100
TELEPACK: 608-831-2106
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 316 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 4, Application US/09498599 Patent No. 6303352
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                                                                                                                                                                                                                COUNTRY: U.S.A.
ZIP: 53717-1914
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/498,599
                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: DeWitt Ross & Stevens S.C.
STREET: 8000 Excelsior Drive, Suite 401
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Sara, Charles S.
(REFERENCE/DOCKET NUMBER: 09
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Cameron, Douglas C.
APPLICANT: Shaw, Anita J.
APPLICANT: Altaras, Nedim E.
APPLICANT: Altaras, Nedim E.
TITLE OF INVENTION: MICROBIAL PRODUCTION OF
TITLE OF INVENTION: 1,2-PROPANEDIOL FROM SUC
NUMBER OF SEQUENCES: 11
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MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC compatible
COMPUTER: PC COMPANIEM: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                      FILING DATE:
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70.0%;
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Pred. No. 38;
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RESULT 10 US-07-725-331-32

Sequence 32, Application US/07725331
Patent No. 52946705
GENERAL INFORMATION:
APPLICANT: Houghten, Richard

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CURRENT FILING DATE: 2000-06-27
NUMBER OF SEQ ID NOS: 835
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 592
LENGTH: 188
TYPE: PRT
ORGANISM: Homo sapien
US-09-605-785-592
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                                                            Best Loc
Matches
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                                                                                        Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                             APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C16
CURRENT APPLICATION NUMBER: US/09/605,785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: 608-831-2106
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 316 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Rat lens aldose reductase
178 LKAQLVKQK 186
                                                         Local Similarity nes 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  62 KLKEQVVKRQ 71
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: linear
                 2 LKSQLVKRK 10
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                                                                                                                                                                                                                                                                                                                                                       Day, Craig H.
Vedvick, Thomas
Carter, Darrick
Li, Samuel
                                                                                                                                                                                                                                                                                                                                                                                                                  Fanger, Gary R. Retter, Marc W. Stolk, John A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dillon, Davin C.
Mitcham, Jennifer L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Henderson, Robert A. Kalos, Michael D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Harlocker,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Jiang, Yuqu
                                                            Conservative
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ick, Thomas S.
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77.8%;
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70.0%;
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                                                                         Score 34; DB 4;
Pred. No. 35;
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Pred. No. 38;
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                                                                                        Length 188;
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                                                            Indels
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PCT-US91-05047-32
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                                                                                                                                                                                                                                                               Sequence 32, Application PC/TUS9105047
GENERAL INFORMATION:
APPLICANT: Houghten, Richard
APPLICANT: Blondelle, Sylvie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: 3126165460
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 amino acids
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: peptide FEATURE:
                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Dressler, Goldsmith, Sutker, Shore
ADDRESSEE: & Milnamow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                            TITLE OF INVENTION: Amphiphilic Peptide Compositions and TITLE OF INVENTION: Analogues Thereof NUMBER OF SEQUENCES: 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Patentin Rel
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ADDRESSEE: Dressler, Goldsmith, Sutker, Shore.
ADDRESSEE: & Milnamow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Blondelle, Sylvie
TITLE OF INVENTION: Amphiphilic Peptide Compositions and
TITLE OF INVENTION: Analogues Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 19-JUL-1990
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 10.
STREET: 10.
TTY: Chicago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
                                                                                                                      STREET: 180 No
CITY: Chicago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: C-terminal amide, acetylated OTHER INFORMATION: N-terminus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
STRANDEDNESS:
                                                                                                       STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REGISTRATION NUMBER: 29, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/07/725,331
                                                                       ZIP: 60601
                                                                                     COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US 07/554,422
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                                                                                                                                          180 North Stetson
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3126165460
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Pred. No. 8.9;
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Best Local Similarity 60.0
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Patent No. 5795761
                                        FILING DATE: 16-JAN-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/584
FILING DATE: 11-JAN-1996
ATTORNEY/AGENT INFORMATION:
NAME: AUERBACH, JEFFREY I.
REGISTRATION NUMBER: 32680
REFERENCE/DOCKET NUMBER: 6137
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 383-7451
              TELEFAX: (202) 383-6610 INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
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                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: ANDERSON, STEPHEN
TITLE OF INVENTION: IMPROVED METHODS FOR PRODUCING VITAMIN
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: HOWREY & SIMON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
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LENGTH: 18 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 19-JUL-1990
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA: APPLICATION NUMBER:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                      ZIP: 20004
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                                                                                                                                                                                                                                                                                                                                                                                                     CITY: WASHINGTON
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TELEFAX: 3126165460
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                                                                                6137-0014 CIP
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Pred. No. 8.9;
3; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-118-270-11
                                                  Query Match
Best Local Similarity
Matches 6; Conserv
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Best Local &
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                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Murphy, Randall B.
APPLICANT: Schuster, David I.
TITLE OF INVENTION: POLYPROTIDES OF G-COUPLED PROTEIN
TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
                                                                                                                       MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION: 202-628-5197
                                                                                                                                                                                                                                                                                                                       FILING DATE: 10-SEP-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/118,270
FILING DATE: 09-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,236
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TOPOLOGY: 14--
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                                                                                                                                                                                                               TELEFAX: 202
TELEFAX: 248633
236 KTRSQITKRK 245
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                                                                                                                                                                                                                           TELEPHONE: ZUZ- C_
TELEPHONE: ZUZ- C_
TENX: 202-737-3528
                                                                                                                                       STRANDEDNESS:
TOPOLOGY: lir
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REFERENCE/DOCKET NUMBER: MU
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                                                                                                                                                                                                                                                                                                         NAME: Townsend, Kevin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE:
                           1 KLKSQLVKRK 10
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                                                                                                                                                               amino acid
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419 Seventh Street, N.W., Suite 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           USA
                                                                                                                                     ss: single
linear
                                                       Conservative
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                                                                  Score 32; DB 1;
Pred. No. 1.4e+02;
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Pred. No.
                                                       Mismatches
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                                                                               Length 355;
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US-09-134-001C-3095
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; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3095
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                                                                                                                                                                                                                                                                                                     Sequence 3095, Application US/09134001C Patent No. 6380370 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 6; Conserv
                                                                      NUMBER OF SEQ ID NOS: 5674
SEQ ID NO 3095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 11, Application PC/TUS9308528
GENERAL INFORMATION:
APPLICANT: New York University
TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
                                                                                                            CURRENT APPLICATION NUMBER: US/09/134,001C CURRENT FILING DATE: 1998-08-13 PRIOR APPLICATION NUMBER: US 60/064,964 PRIOR FILING DATE: 1997-11-08 PRIOR APPLICATION NUMBER: US 60/055,779 PRIOR FILING DATE: 1997-08-14
                                                                                                                                                                                                                    APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: GTC-007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PILING DATE: 09-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943
PILING DATE: 10-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Townsend, Kevin G.
REGISTRATION NUMBER: 34,033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 355 amino acids
                                       TYPE: PRT
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: MI
TELECOMMUNICATION INFORMATION:
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MEDIUM TYPE: Floppy
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STRANDEDNESS: sin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
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419 Seventh Street, N.W., Suite 300
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Pred. No. 1.4e+02;
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Query Match 67.4%; Score 31; DB 4; Length 66;
Best Local Similarity 66.7%; Pred. No. 45;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
Qy 1 KLKSQLVKR 9
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Db 5 KIKSLLIKR 13

Search completed: February 8, 2003, 10:44:05
Job time: 12.3333 secs

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Format Options:
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Find non-matching hits only I
Report key used
Note position of hit
Display full annotations
Sequence context
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seq28 (AA) ID seq28 AA preliminary pattern
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Number of sequences searched:
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GENPEPT, Release 131.0, Released on 30Aug2002, Formatted on 31Aug2002
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                                                                                                                                                                                                                                                                                                                    ! GB:V01492 bradykinin [Bos taurus] (ver 1)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ! GB:A14468 unnamed protein product [Fowlpox
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Total :	Databa	\\End of list	GP:CAA24737	GP:AAB22067	GP: AAM50387	GP:CAA01163	GP:CAA00584	-	!!SEQUE!
Total finds: Total length: Total sequences: CPU time:	Databases searched: GENPEPT, Release 131.0, Released on 30Aug2002, Formatted on 31Aug2002	f list	4737	2067	0387	1163	0584	$1 < (R, K, H) (A, R, N, C, Q, G, H, I, L, K, M, F, P, S, T, W, Y, V) \{7, 7\} (R, K, H) > 0$	ISEQUENCE LIST 1.0   FINDPATTERNS on genpept:* allowing 0 mismatches
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CAAOO584 GB:AO6625 D11 carboxy-terminus [synthetic construct] (ver 1)

CAAOO584 Length: 9 February 11, 2003 12:16 Type: P Check: 3637 ...

1 KLIVILTVR

1 KLIVILTVR

1 IAA_SEQUENCE 1.0
CAAO1163 GB:A14468 unnamed protein product [Fowlpox virus] (ver 1)

CAAO1163 Length: 9 February 11, 2003 12:16 Type: P Check: 3637 ...

1 KLIVILTVR

1 KLIVILTVR

1 IAA_SEQUENCE 1.0
AAM50387 GB:AF384615 ribosomal protein 16 [Howittia trilocularis] (ver 1)

AAM50387 Length: 9 February 11, 2003 12:16 Type: P Check: 3482 ...

1 KRTRFFKQH

1 IAA_SEQUENCE 1.0
AAB22067 Length: 9 February 11, 2003 12:16 Type: P Check: 3482 ...

1 RNQVTIYTK

1 RNQVTIYTK

1 AAB220GE 1.0
CAA24737 GB:V01492 bradykinin [Bos taurus] (ver 1)

CAA24737 Length: 9 February 11, 2003 12:16 Type: P Check: 3453 ...

1 RPPGFSPFR
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ACCESSION
VERSION
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-58
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                                                                                                                         GGAATGGAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /gene="D10"
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                                                            GGATAGCATT TAGTAATATT
                                                                                          GATTAATTTA CATAATACCT
                                                                                                                        CATCTTTGT TTTCTTAGGT AACATAATTG
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including
                              ATCATGTAGA
                                                            TGTAAAATCA
                                                                                          ACATCATGTA
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the genes D7,
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1401 1151 1101 1051 1001 1651 1551 1501 1451 1351 1301 1251 1201 1601 901 701 451 401 351 301 CTTAGGCCGT AAAAGATATA CATCTCAGGG CCAAGGTATC TTGTAGAAGT AGAATTGACG TACCTTATTA AGATCAATAG ATAAACCATC TTCGATATAT TCATATATTC ACATTTTTCT TGGAAATGTT ACCCGACGAA AACGGCGACG TTTGGTAATA AGTATTATTA TGACGGTATT CTGTATATTC TGATAATATA CAAAAAATCA AACTGGTAGC ACATATAAAT ATGGGGGAGT GGGTATTGTA TAGTGTGTTT AAATATTAAA ACTTACCATA GAAGATAAGA ACTATCGGAA GAAAGCGATG GGAGGAAGAG TTAAAAATAA AGAATCAATA TACCATTCAC ATATAGCGGA TAAAGTATAT ATCAAAAAGA ATACCTATAA TCGGTATAAG CTTAGCGATA GACGAATTCA CATATCGCGT TTCGAAACAA ATAAAGAATA CCAGAGAACA ACAAAATATA TTAGAAAAAA ATAAAGATTG CATAAGTGAA AAATAAACAA CTATAAAAAC TTTTTTATAT CTTTATATCT ACTITAACGA TATAATCGTT AACTTATTAG ACGCGGTATA TCAAAAAAAG TCATAGTTAT ACTTCAGAGG AAGGATCACA GGATTTAGAC CAACAGGTAA TTATGGAGGG ACACGAAAAT TATATGGTAG GTCGGATGGT TACATGCATA ACGAAGTAAG TATAACCCCT CTGATTATAA TAAAGAAGCA GATACGACAC CGTGGCAACA TTGTTTTATT AAAAGCACCT TTGATAATAT GTATAATAAC AGAAGCTTTT AGTTTACGAT TAATTAAAAA AATATATTCA TATTGCTATA AAGTAAAATA TGGTAAAATC GTATATGTGC ATAGGATCGC GGGAACAACA GACTTCGGGA AAGCCAAGTC AACATAAAAT CGGCCGCTAA AAATTGAATG AAAAATGAAT CTAGGAGTGT TTACTGTTTC GAAGGTTCAT ATATGTGTGT GGGTGACGGA CCCTATGTAC TTCTCTGCTT TATATATCTA AACATAGAAA TCCGTACGGT GACAAGTGGG AAAGATGATC GAAGTTACTC GGATGGATAG TCGTACCGGA ATTATAAAAA TAAATTGCTC TACTTGCATT TCAAAGAATT TATAGACCAA GAATACTTAC TTCAACAACT GAAATTAAAG CAGAAATATT AAGAACGTCT ACTATAGAAA ATGCTATTTC ATTATCTCCT GTAGTTACCT TAAGTATCCC CCAAACCATG AGGGTGCTGG ATTTCTCAAT TCAAAAACTT TACTTCGTAG TATCAATGCC TTGAAGAGTT AAATATCATT AGCCGTCGAT TTTATGTATC TATGTATTAC ACACTAACAT TAAGATCATG ACTATATATA TAAATGGGAI TTTAATTATA TAGAATAGAT TTTTATGGAA TTATCAGATA GTGGAGATAT AAATCCTACA GTTAACTTAC GGTGGAAGAT CGAAGATCGA TGTATGGATA CTACATATAT AAGGAATAAA AGAAGATAAA AGTAGTGATA CTCTATTCAC TATAAAAACA TGCTTTTAGT

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A14468
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 (bases 1 to 2681)
Binns, M.K., Boursnell,
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                                                                                                                                                                                                                                                                                                              complement (2652.
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                                                                                                                                                                                                                                                                                                                                                                                                                    db_xref="SWISS-PROT:P32817"
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db_xref="taxon:10261"
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AATAGTATAT TGAATTCTTT
                                                                                                   CATCITITGT TITCITAGGT
                                                                   GATTAATTTA CATAATACCT
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1701 1651 1451 1351 1951 1601 1551 1251 1201 1151 1001 2001 1501 1401 1301 1101 1801 1051 901 851 801 651 601 501 451 401 351 301 251 201 751 701 CTTAGGCCGT CTGTATATTC TGATAATATA CAAAAAATCA AACTGGTAGC TACCTTATTA AGATGCAAAG GAGTAGATAT AACAACTTGG AAGATATTAG ATAAACCATC ATCAGATAAT ATACCTATAA TCGGTATAAG AAGAACGTCT TTTATGTATC AAAAGATATA GTTTATCAAA CATAAGTGAA AAATAAACAA CTATAAAAAC TAAGATCATG ACACTAGTAT TCATATATTC ACATTTTTCT CATCTCAGGG CAGAATCTGA ACAGGAGAAT TGACGGTATT ACCCGACGAA AAAAAAAACC CCAAGGTATC GTAATTGTAG TAAATCTTAC TTGTAGAAGT AGAATTGACG TTTGGTAATA AGTATTATTA AGATCAATAG TGTTATTACT TTCGATATAT TGGAAATGTT TGTTACATAC AACGGCGACG ACATATAAAT ATGGGGGAGT CAAGTAATGA GGGTATTGTA TAGTGTGTTT AAATATTAAA ACTTACCATA ACTATCGGAA GGAGGAAGAG TTAAAAATAA TACCATTCAC ATATAGCGGA TAAAGTATAT GTATAATAAC CTTAGCGATA GACGAATTCA CATATCGCGT TATGTATTAC TTCGAAACAA CCAGAGAACA TTTTTATAT AGTTTACGAT CTTTATATCT TAATTAAAAA AATATATCA TAAATGGGAT ACTITAACGA TATAATCGTT ACGCGGTATA TATTGCTATA AAGTAAATA ATTTCTCAAT TCAAAAAAAG TCCGTACGGT TCATAGTTAT GGATTTAGAC TGGTAAAATC CAACAGGTAA GTATATGTGC TTATGGAGGG ACACGAAAAT GGGAACAACA GACTTCGGGA GTTAACTTAC TATATGGTAG AAGCCAAGTC GTCGGATGGT TACATGCATA ACGAAGTAAG CTGATTATAA AAAAATGAAT TAAAGAAGCA GAAGGTTCAT GATACGACAC GACAAGTGGG CGTGGCAACA TIGITITATI AMAGAIGATC AAAAGCACCT CCCTATGTAC TTGATAATAT TTATACACAC AATGATATGT AAAAATAGTA TTCGACATAA ATCAAAAAGA AGAAGCTTTT ACCTTTATAT AAAATACGAA AACATAGAAA GAAAGCGATG ATAAAGAATA ACTTCAGAGG ATAGGATCGC CGGCCGCTAA AAATTGAATG GGGTGACGGA TTCTCTGCTT ACAAAATATA AACTTATTAG GGATGGATAG ATTATAAAAA TAAATTGCTC TACTTGCATT TCAAAGAATT TATAGACCAA CTCTATTCAG GAAGATAAGA GAATACTTAC AGAATCAATA TTCAACAACT GAAATTAAAG CAGAAATATT ACTATAGAAA TTAGAAAAAA ATGCTATTTC ACTATATATA AAGGATCACA ATTATCTCCT GTAGTTACCT GTGGAGATAT TAAGTATCCC AAATCCTACA AACATAAAAT GGTGGAAGAT TATAACCCCT CTAGGAGTGT ATATGTGTGT CCAAACCATG GAAGTTACTC AAGGAATAAA AGGGTGCTGG AGAAGATAAA TCGTACCGGA TATATATCTA CTACATATAT TACTTCGTAG TATAAAAACA TATCAATGCC TTGAAGAGTT AAATATCATI ACACTAACAT ATAAAGATTG TTTAATTATA TAGAATAGAT TTTTATGGAA TTATCAGATA TGCTTTTAGT TTACTGTTTC AGTAGTGATA CGAAGATCGA TGTATGGATA TCAAAAACTT TTATTTATAA AGGATCATTA AGCCGTCGAT

2651 2601 2551 2501 2451 2401 2351 2201 2301 2251 2101 2151 2051 TCTATCTAAC TGTTAATATA TAAATTAATT T CATTTATAGA CGCAAGAGAT ATTAACAAAG ATTATTTGTA TACTAATGTA TAGACAAATA TTGAATAGAT TCATCCCTAA TAGAGAAATT AAAGGAATAT GATAAAGATT TTGAAGTTAT AGCCCTTTAC GTAGAAACAG ATCTTACGAG ATAATCTTCC CAGGTGGTAA AATAAAAGAC TTGGAAAGTA TAACTAATTG TAAGTTATAA GCTATCGCTT CCTAATAACT ATAATACAAA CCATATAGAT TAATGAAAAC AATAGATGAC AAGTTTGTTT TATGCCATAG ATACAATAGT ATATGAATAT GGCAAACTAC ATGCTAAATA TCCACTATCC GTAATAGGTA ATTAAATATA TAATAAACGC TGTAAGAACA TCCGCTAGCA ATAGTTAACA TCTAGTAAGA GAAATAAAAG AAGAATTAAA TATCGATTCC TCTTATCTCG ACTCTTTAAG AAATATTCAA AGTATATGAG TAACATCGAA CGTGATATAT TTCTTGTTTT CAGAAATAGC ATTTACAAAA GATAAACGAC GGAAAATAAG CTATCTGTAA GAACTGTTTT GTATACGGTT CTATATACGA CAGATTGATA

651	601 (	551 (	501	451	401	351	301 (	251	201	151 '	101 /	51 /	ш.	AF384615 1	BASE COUNT	CDS		intron	gene		source	FEATURES	JOURNAL	AUTHORS	JOURNAL	AUTHORS TITLE	REFERENCE	SOURCE	ACCESSION VERSION VERSION	IINA SEQUENCE LOCUS A DEFINITION H
ATTCTGAGAG GTTATGAGTT AACCCGACAA CTGAACTAGA TATTGAAAGA	GGGTAGGATG GCGGAACAAA CCGGAGACCA CTTCATTTCT TTTTATTCTG	GAACCCGTGA ATGCAGAGAT TCTATTGAAA ACGAATCCTA ATGATTTATC	CATTGTAGAA TTCAGACCTA AGCATTAATC GAGAAGCGAT GGGGACGACG	AAATTTTATT TAATTTTTT TATTAAATTA AAATATTAAA ACGAAGGCTC	CAAGAGCTTT AACTTAAGTC AATAAAGACT GAGAAGGTTG ACTCAAGAAC	TCATCAAGAA ATCAATAATT AGATGAATAT CTGTTCATTG AAGAAAAAAT	GTCTATGAAG CATCTCATAA AGAGCAATGT AATAGAGCAT CAATAGAGAT	AGAGAGAAAA AGAAATAGCA ATGAAATGAT ATATGATTCC AATATGTAAG	AATTGTGAAG CAAAATAAAA AATATGTGGA TAAATAGAAG GATGAGAGAA	TTTTTTGCAT TAAGTAAAAG AAAAAACCAA TCTGATTAGG AATATATCTA	AATCAGTCAA GATATGATAT ATTGGTCATA TCATTATAGC AACTGAATTT	ACTATAGCAC TAATAACCAA CTCATCGCTT CGGATTATCT GGATCCAAAG	TAGGATTCAA AAAAAAAATG GGCGTCCACA GTAAAAAGTA AAAGCTAATA	Length: 1138 February 11, 2003 15:09 Type: N Check: 849	/transl table=1 /transl table=1 /product="ribosomal protein 16" /protein id="AAM50387.1" /db_xref="GI:21388905" /translation="KRTEPRKQH" /t68 a 156 c 178 g 336 t	•	<pre>/gene="rpl16" /note="sequence begins in the domain I 5' bulge"</pre>	Λ ~	<1 >1138	ြင့္မရွိ	11138	c industry, GPO Box 1600, Canberra, ACT ocation/Qualifiers	23-MAY-2001) Center for Plant Biodiversity Research	1, B. E.,	27 (2), 333-350 (2002)	Pfeil,B.E., Brubaker,C.L., Craven,L.A. and Crisp,M.D. Phylogeny of Hibiscus and the tribe Hibisceae (Malvaceae) using chloronlast DNA semiences of ndhe and the rolld intron	yta; Magnolioph; urosids II; Mal 1 to 1138)	phyta	3I:21388904	CCE 1.0  AF384615  1138 bp DNA linear PLN 11-JUN-2002  Howittia trilocularis ribosomal protein 16 (rp116) gene, intron and particular ages of colors and colors are set of colors.

701 GTAAATATTC GCCCGCGAAA ATTTTATTT CATTTTAATT TTATTTGATT
751 GTTAAATTTT TGTCGATCTG AATCTGATAT GAATATGATA AAAAACAAAA
801 TAAAGATTCG TTATAACATT ATAACAAAAC CAAGATAAGA CATTATCTAG
851 AAATAGAATC CGTGTTTAAT TACTTATATA TATATCCAAT ATATATCCAA
901 ACAAGATATA CAAATTTCTA ATAGATCAGA TAAAATATCA AAGCAAAGAA
901 ACAAGATATA CAAATTTCTA ATAGATCAGA TAAAATATCA AAGCAAAGAA
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1001 AAATAGTTTT TTAGTCATTAT ATTGATTAACT ACCTGTATAT CAACCATCAA
1101 CTATAACCCA AAAAGAACCA GATTTCGTAA ACAACATA

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KEYWORDS
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AUTHORS
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DEFINITION WT1=zinc finger protein [human, Wilms' tumor WT7, mRNA Partial Mutant, 30 nt].

ACCESSION $95530

VERSION $95530.1 GI:248740
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CGCAATCAGG TGACAATTTA TACCAAATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GenBank staff at the National Library of Medicine created this entry [NCBI gibbsq 95530] from the original journal article. This sequence comes from Fig. 5a.

Map location: 11p13.

Map location in the mucleotides 9-10 has resulted in a complete deletion between nucleotides 9-10 has resulted in a complete deletion of zinc finger domain. The deleted nucleotides are corresponding to 190-415 in normal DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Maitland, N.J.
Inactivation of the remaining allele of the WT1 gene in a Wilms' tumour from a WAGR patient Oncogene 7 (4), 763-768 (1992) 92228507
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PUBMED
COMMENT
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CGCCAGAATG GATAATCCTG
                                   AGTGAAAACA AGAGTGGCAA CCAGTTTGTA TTGTACCGCA
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3174 bp mRNA linear MAM 12-SEP-1993
Bovine messenger RNA coding for kininogen (clone pKG203). This
gives rise to bradykinin a vasoactine peptide.
V01492 K01758
V01492 l GI:493
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Nakanishi,S.
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                                                                         TGTATTTAAA
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                                                                                                                                                                                       TTGGCTCCCA
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TGQCTATVAKRGNMKFSVAIQTCLITPAEGPVVTAQYECLGCVHPISTKSPDLEPVLR
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SLSSGDTGECTDKAHVDVKLRISSFSQKCDLYGEDFLFPMCVGGFKPIPPDSPDLE
EALNHSIAKLAAEHDCTFYFKIDTVKKATVQVVGGLKYSIVFIARETTCSKGSNEELT
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ACACATTTA TTCCTTGAAG TACCAAATCA
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                                                                         GCTGTGGACG
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1701 1351 1301 1801 1751 1551 1451 1251 1201 1051 1001 1951 1851 1651 1501 1601 1401 951 901 851 801 451 401 751 701 651 501 AAGACTCCCC TGGACATCAA CTCTGAACCA TACAACAAAA AAGCCAGTTA TTTCAGATTT GCAACTGTGA GCCACGGAAA CATAAGCATG GGGACCATGG GGAAGCACAA GGCCTCCGGG ATTCTACACT GAAGTAATGA TATTTCAAGA CAGAAATGTG GTACAGATAA GAAGTTAATT TGAAAGAAGT TGCCATCCAA CTCCAGCCGA CAAGAGAGGG TACAAGGACT AGGAGGGCGA TTTTGATCTT CIGGATCCCI AGCCAGGTGT TGCACAGACG TGGAGGACAC TGAAGAGCGG TTACCCTACT ATTGAAGTAT TGTCGGCTGC ATTCTTAACT ATGGGAACAC CGTCAATCTC TATGGATGAC ATAAAACTGT ACCATGAACA TTCAGAACAG GTTGATGCTC ATGGAGTGAA TCCAGAAACA GACATCCAGA TGCCTAATAC ACTACCACCT CACACAGAGA GTGATGATGA AGCCATTACC CAAGAGAAGA CCTATTTGGC ACATAAAAAC AAAGGAAAAA ACAATGGAAA AAGCAACATG GTCTTGGCCA AAAGCAAATA AAATTACATG GATTCAGGAA AAGAACAAGG CTGTAAGTCT TTTTTCACCT GTCAACTGTC AACCACTTGG GTGATGCTAA AGAGCTGACC TCTATTGTGT TTGACACTGT GAAAAAAGCA ACAGTACAGG TTCCATCGCA AAGCTTAATG CCCAAACCTA TACCTGTTGA ACCTITATCC AGGGGAGGAT AGCACATGTA GATGTCAAGC CCAGACTGCA ACTCAATTGC ACAAACTAAT AAAAAGAGCC CAAAAACAGG TATTTAACA ACAACACCAG TATCTACCAA GGGCCCCGTG GTGACAGCCC AATATGAAGT CTGCACAAGC CTGTCCTTTT CAAAGTAACA AAACTTGGCA GGACTGTGAC ACCAAGGTCA TGGGCACCAT ACCTCCCCCA CAGAGCCAAA TTTCCTGACT AAGTTCTTAT ACCCCACTCT TTCCGATCAG TGTCTATGTG TCATAGCAAG TCTCCGTGGC TGCCACAGGA TTCTTTAATT TCCAACTGTG CAGAAGAGAC AAGAGTTGTG AGTCCCTTTC GAGCCCCGAC TGTCCCCATT CCTAGAGAGA AATAAATGGT AATGTCCTAG TAGCCTTGCA CAGTGCACAG TAGGCAGCCA GAAATGAAAG TTCAGGACTC AACACTCTCT GAAGATAGCA TGGACATAAG AGAAGTCATG GCCTTGGCCT TGGCCATAAA ACCCACTCAT GGGCATGGCT GCCATGTCAC TTCAAGTGAT GAAAACTGAA ACAGACCTCA CTCATGAAAA GIGCCIIGGG AGATCAATAT GGAAACCACA TGTTCTAAGG CAGAGCATGA CAGCCCAGAC TTTTTACCCC TAAGAATTTC TTCCTTCTCG AAGTGGTGAT TGTTCCAAGG TGGTGTCTGG TCATTCCCAC CTCTTTGATC TIGGAGCCIG AGTATGAGTG TATCCAGACC GGGGTATTTC AGATCTCATI CTACATCCTC GCATTATGAI CATGGTCATG CTGTACAAGA TGGAACCTTC CCTTGGCTGT TTTAAATTGA TCCCTAGCCC GTCTTGGCCA AGGAAAAAGT CTGGAGGAAG CCATGGTTTG AGGAATTTTC CGACCGTGGC AGTCTCATGA TCGCCCCTGC TGGTAGGTGG ACTGGTGAAT ATGGAACTAT TTCTGAGATA TGCCTGATCA

2951 3151 3101 3051 3001 2901 2851 2801 2751 2701 2651 2601 2551 2501 2451 2401 2351 2251 2201 TGCAAATAAA GAACCAATGA TCTC GGAAAGAATA ATATGATTAT CTTTAATTTA CTGGTAATGT GAGGGAGGCA AATAATAAAA ACCTCCAGAG GTCAAAGAGG AACAAGAGAG AAAGACAGAT ACACCCACAC TCACCTGTGG ATGCCCCATCA CTGTTTCTTC AAATTATTGG TGTCTTTCAC AGCCCCTGCT GTGCTTTTGC CTAGGGAAAT AGGGCTTTAT TATAGTTGCA TTTTCTTTTG CTATAACATT GAAGTATATG GACTTTTGCA TGTGATGCAA ATTTTGTTCA GAAATTTTAT GAGAAATTCT TTGTAGCCTT CCTGCTTGAG GAAATCTTTT TTTAATAATT GATAAGGGAA TATCATGAGA GCTCTGAGTT TAATAATAAG GATGGAAAGC AGAAGTAATA CAAAGGCTGG TTACTCATTA ACTGCGCTTT GCAATAGGGC TTTCAAATAG GAGTTTTCTG ATAATTCTCT TTCTGGGTGA GAGTGTTTCT TGTAAGTCAG TAATTTCTGT AATGGGCTAG TAATCTCAAA CAGTTACTCC CATGTGACAA AGCTATTCTG TGGCCAAAGG GAGGACAGAG AAAATAAATG AATTGACTTT CTGTTTCCAA ATAAGGGAAG TTAAGAGACT GAATGTCGAA CTTCTTAATG GAGGGAAAAA AAGATTCCTG ACATTTTGAA TAAACTGTAA CATCTGGTCC TTATGTGGCA TTCTGATAAT GAATGTGTAC CCTCAAATGT ACAATGTCAA TTTTCATACA AGCACAGAAA ATGGACAAAC TAATATACTT GTGGCCTACT TCAGTTGCTT GTGCAGAATT CTAACTCCTT TCTGAGGTTT CCTCCCAGGT TTTCTTAACT ATGCGTTTGA GCCACTGAGT TTTTATTTCA TTCAAAATAG TATCTGTACT TITGITTGIA TGTTGCCAGC ATTAGACTGA GTAATCCTTA CTGTTCAATA

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Total finds:
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                                                                                                                                                                                                                                                                                                                                                       <(R,K,H) (A,R,N,C,Q,G,H,I,L,K,M,F,P,S,T,W,Y,V) \{7,7\} (R,K,H) > (R) (G,F,P,S) \{7\} (R) RPPGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <(R,K,H)(A,R,N,C,Q,G,H,I,L,K,M,F,P,S,T,W,Y,V)\{7,7\}(R,K,H)>
(R)(G,L,F,P,T)\{7\}(R)
RPPGFTPLR
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RPPGFSPFR
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                                                                                                                                                                                                  < (R, K, H) (A, R, N, C, Q, G, H, I, L, K, M, F, P, S, T, W, Y, V) \{7, 7\} (R, K, H) > (R) (G, F, P, S) \{7\} (R)  RPPGFSPFR
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                                                                                                                                                                                                                                                                                    ! hydroxyproline-3-bradykinin - frog (Heleoph
                                                                                                                                                                                                                                                                                                                                                                                                                                               ! bradykinin - horn fly (fragment)
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Total finds:
Total length:
Total sequences:
CPU time:
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                                                                                                                                                                                                                                                                                                                                                                          !!SEQUENCE_LIST 1.0
! FINDPATTERNS on pir:* allowing 0 mismatches
                                                                                                              \\End of list
                                                                                                                                          PIR2:A43065
                                                                                                                                                                                                PIR2:B60246
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                                                            Databases searched:
NBRF, Release 73.0, Released on 16Aug2002, Formatted on 20Aug2002
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96,134,422
283,224
01:27.12
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C;Accession: A60579
R;Conlon, J.M.; Hicks, J.W.; Smith, D.D.
Bridocrinology 126, 985-991, 1990
A;Title: Isolation and biological activity of a novel kinin ([Thr(6)]bradykinin) from the turtle, Pseudemys scripta. ([Thr(6)]bradykinin) MC0579; MUID:90126625; PMID:2298179
                                                                                                                                                                                                  P1;A60579 - bradykinin-like peptide - slider turtle
C;Species: Pseudemys scripta (slider)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 18-Aug-2000
C;Accession: A60579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R;Anastasi, A.; Erspamer, V.; Bertaccini, G. Comp. Biochem. Physiol. A 14, 43-52, 1965
A;Title: Occurrence of bradykinin in the skin of Rana temporaria.
A;Reference number: A61363
A;Accession: A61363
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P1;A26744 - bradykinin-like peptide - garden dagger wasp
N;Alternate names: Thr-6-bradykinin
C;Species: Megascolia flavifrons (garden dagger wasp)
C;Date: 08-Mar-1989 #sequence_revision 08-Mar-1989 #text_change 18-Aug-2000
C;A26085ion: A26744
C;Accession: A26744
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A;Title: Threonine(6)-bradykinin in the venom of the wasp Colpa interrupta (F.) presynaptically blocks nicotinic synaptic transmission in the insect CNS. A;Reference number: A61057; MUID:91130217; PMID:1980872
A;Accession: A61057
                                               A; Reference number: A60579; A; Accession: A60579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: protein A; Residues: 1-9 < ANA> C; Superfamily: unassigned C; Keywords: skin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Molecule type: protein A; Residues: 1-9 < YAS> C; Superfamily: unassigned
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;Yasuhara, T.; Mantel, P.; Nakajima, T.; Piek, T.
Toxicon 25, 527-535, 1987
Toxicon 25, 527-535, 1987
A;Title: Two kining isolated from an extract of the venom
solitary wasp Megascolia flavifrons.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                P1;A61057 - Thr-6 bradykinin - scoliid wasp (COLPA INTELLUPIA)
C;Species: Colpa interrupta
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 18-Aug-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Species: Rana temporaria (common frog)
C;Date: 09-Sep-1994 #sequence_revision 09-Sep-1994 #text_change 18-Aug-2000
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P1;A61363 - bradykinin -
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A;Accession: A26744
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R; Piek, T.; Hue, B.
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;Molecule type:
;Residues: 1-9 <
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<CON>
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C;Comment: This peptide increases aortic blood flow but, unlike bradykinin mammalian systems, does not lower blood pressure in the turtle. C;Superfamily: unassigned animal peptides C;Keywords: plasma
                                                                        A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-9 <KIM>
                                                                                                                                               A;Reference number: A60246; MUID:90102072; PMID:2603803 A;Accession: B60246
                                                                                                                                                                                                                       C;Species: Gallus gallus (chicken)
C;Date: 11-Dec-1992 #sequence_revision 11-Dec-1992 #text_char
C;Date: 11-Dec-1992 #sequence_revision 11-Dec-1992 #text_char
C;Accession: B60246
C;Accession: B60246
R;Kimura, M; Sueyoshi, T.; Morita, T.; Tanaka, K.; Iwanaga,
Adv. Exp. Med. Biol. 247A, 359-367, 1989
A;Title: Ornitho-kininogen and ornitho-kinin: isolation, char
                                                                                                                                                                                                                                                                                                                                            гı;в60246 - ornitho-kinin -
C;Species: Gallus gallus (ch
                                                 C; Superfamily: unassigned animal peptides
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                                                                                                                                                                                                   chemical structure.
     B60246
Length: 9
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     Check: 3526
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#### A;Reference number: S65431; MUID:96215437; PMID:8647080 A;Accession: S65433 A;Status: preliminary F1;856433 bradykinin - horn fly (fragment) C;Species: Haematobia irritans (horn fly) C;Date: 28-Oct-1966 #sequence\_revision 13-Ma C;Accession: 865433 A; Note: the source is designated as Haematobia irritans exigna A; Molecule type: protein A; Residues: 1-9 < WIJ> A; Title: Cloning and characterisation of angiotensin-converting dipteran species, Haematobia irritans exigua, and its expression maturing male reproductive system. R; Wijffels, G.; Fitzgerald, C.; Gough, J.; Riding, Willadsen, P. S65433 J. Biochem. 237, SEQUENCE 1.0 Length: 9 RPPGFSPFR February 11, 414-423, 1996 2003 12:15 13-Mar-1997 #text\_change 13-Mar-1997 Type: P G.; Elvin, Check: 3472 expression in C.; Kemp, enzyme from the the

RPPGFTPLR

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A;ACCEBBIUM. Protein
A;Molecule type: protein
A;Residues: 1-9 < MAK>
C;Keywords: bradykinin; hydroxyproline; skin
C;Keywords: bradykinin; hydroxyproline (Pro) #status experimental
                                                                                                                                                                                                                             p1;A43065 - hydroxyproline-3-bradykinin - frog (Heleophryne purcelli)
C;Species: Heleophryne purcelli
C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #text_change 07-May-1999
C;Accession: A43065
R;Nakajima, T.; Yasuhara, T.; Erspamer, G.P.; Visser, J.
Experientia 35, 1133, 1979
A;Title: Occurrence of Hyp(3)-bradykinin in methanol extracts of the skin of the South African leptodactylid frog Heleophryne purcelli.
A;Reference number: A43065; MUID:80024576; PMID:488255
                                                                          C;Keywords: bradykımın, mymatriger (Pro) F;3/Modified site: hydroxyproline (Pro)
                                                                                                                                                                                                          A; Reference number: A43065; A; Accession: A43065
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                                                 Length: 9
  RPPGFSPFR
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Total finds:
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SWISS-PROT, Release 40.3, Released on 9Aug2002, Formatted on 20Aug2002
SPTREMBL, Release 21.0, Released on 15Jun2002, Formatted on 28Jun2002
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247,523,443
784,472
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 RPPGFTPFR 
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(R)(G,F,P,S)\{7\}(R)

RPPGFSPFR
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(R)(G,F,P,S,W)\{7\}(R)

RPPGWSPFR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ! P83059 bombina orientalis (oriental fire-be
                                                                                                                                                                                                                                                                                                                                              ! P83056 bombina variegata (yellow-bellied to
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Total finds: Total length: Total sequences: CPU time:	Databases searched: SWISS-PROT, SPTREMBL, Re	\\End of list	SP_OV:P83056	SP_OV:P83058	SP_OV:P83059	SP_OV:P83060	SP_OV:Q9PRJ4	1 < (R, K, H)	SEQUENCE LIST 1.0   FINDPATTERNS on swp:* allowing 0 mismatches
5 247,523,443 784,472 04:16.14	: Release 40. elease 21.0,		ck: 3433 len: 9	ck: 3478	ck: 3478	ck: 3472 len: 9	ck: 3557	(A, R, N, C, Q, G	wp:* allowin
τυ ω άz 4i	3, Released Released or		len: 9	len: 9	len: 9	len: 9	len: 9	, H, I, L, K, M, E	g 0 mismatch
·	on 9Aug2002 1 15Jun2002,		finds: 1	finds: 1	finds: 1	finds: 1	finds: 1	,P,S,T,W,Y,	1es
	es searched: SWISS-PROT, Release 40.3, Released on 9Aug2002, Formatted on 20Aug2002 SPTREMBL, Release 21.0, Released on 15Jun2002, Formatted on 28Jun2002		! P83056 bomb	! P83058 bomb	! P83059 bomb	! P83060 bomb	! Q9prj4 lepi	1 <(R,K,H)(A,R,N,C,Q,G,H,I,L,K,M,F,P,S,T,W,Y,V){7,7}(R,K,H)>	
	20Aug2002 8Jun2002		P83056 bombina variegata (yell	P83058 bombina variegata (yell	P83059 bombina orientalis (ori	! P83060 bombina orientalis (ori	! Q9prj4 lepisosteus osseus (lon		
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TISSUE-SKIN SECRETION;

Chen T.B., Orr D.F., Bjourson A.J., McClean S., Rao P.F.

"Cloning and post-translational processing of frog skin submitted (JUL-2001) to the SWISS-PROT data bank.

-i-FUNCTION: VASODILATOR.

-i-FUNCTION: VASODILATOR.

-i-SUBCELLULAR LOCATION: SECRETED.

-i- SUBCELLULAR LOCATION: SECRETED.

-i- TISSUE SPECIFICITY: SKIN.

Vasodilator; Bradykinin.

Vasodilator; Bradykinin.

Vasodilator; Bradykinin.
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Q9PRJ4;
Q9PRJ4;
01-MAY-2000 (
                                                                                                                   P83059;
01-OCT-2001 (TrEMBLrel. 18, Created)
01-OCT-2001 (TrEMBLrel. 18, Last sequence update)
01-OCT-2001 (TrEMBLrel. 18, Last annotation update)
01-OCT-2001 (TrEMBLrel. 18, Last annotation update)
Bradykinin-like peptide ([Thr6]bradykinin)
Bombina orientalis (Oriental fire-bellied toad).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleost Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae;
          TISSUE-SKIN SECRETION;
Chen T.B., Orr D.F., Bjourson A.J., McClean S., Rao P.F.
"Cloning and post-translational processing of frog skin
submitted (JUL-2001) to the SWISS-PROT data bank.
-!- SUBCELLULAR LOCATION: SECRETED.
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01-OCT-2001 (TrEMBLrel.
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01-MAY-2000 (TrEMBLrel.
01-JUN-2001 (TrEMBLrel.
                                                                                                     NCBI_TaxID=8346;
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Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae;
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Bombina orientalis (Oriental fire-bellied toad).
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SEQUENCE 9 AA; 1099 MW;
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Conlon J.M., Platzack B., Marra L.E.,
"Isolation and biological activity of
of the phylogenetically ancient fish,
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Eukaryota; Metazoa; Chordata;
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SPECIFICITY:
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                                                                                 TISSUE SPECIFICITY.
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rog skin kininogens.";
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                                                                                                                                           SEQUENCE, SUBCELLULAR LOCATION, AND TISSUE SPECIFICITY. TISSUE-SKIN SECRETION;
Chen T.B., Orr D.F., Bjourson A.J., McClean S., Rao P.F. "Cloning and post-translational processing of frog skin submitted (JUL-2001) to the SWISS-PROT data bank.
-!- SUBCELLULAR LOCATION: SECRETED.
-!- TISSUE SPECIFICITY: SKIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-OCT-2001 (TrEMBLrel. 18, Created)
01-OCT-2001 (TrEMBLrel. 18, Last sequence update)
01-OCT-2001 (TrEMBLrel. 18, Last annotation update)
01-OCT-2001 (TrEMBLrel. 18, Last annotation update)
Bradykinin-like peptide ([Ala3,Thr6]bradykinin).
Bombina variegata (Yellow-bellied toad).
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01-OCT-2001 (TrEMBLrel. 18, Last sequence up
01-OCT-2001 (TrEMBLrel. 18, Last annotation
Bradykinin-like peptide ([Thr6]bradykinin).
Bombina variegata (Yellow-bellied toad).
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Chen T.B., Orr D.F., Bjourson A.J., McClean S., Rao P.F., Shaw C.;
"Cloning and post-translational processing of frog skin kininogens.";
Submitted (JUL-2001) to the SWISS-PROT data bank.
                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleos
Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae;
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-1- TISSUE SPECIFICITY: SKIN
SEQUENCE 9 AA; 1074 MW; :
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9 AA; 1048
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GenCore version 5.1.3 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 8, 2003, 10:57:01; Search time 14 Seconds (without alignments) 75.534 Million cell updates/sec

Title: Perfect score: Sequence: US-09-685-010-30 54 1 KQKIKHVVKLK 11

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 1326

Minimum DB seq length: 0 Maximum DB seq length: 11

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR\_73:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

29	28	27	26	25	24	23	22	21	20	19	18	17	16,	15	14	13	12	11	10	9	8	7	6	5	4	ω	2	_	No.	Result
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Q)	ribosomal protein	cytokeratin 4 - bo	phosphoenolpyruvat	polyphosphate-gluc	C	pyridoxal kinase (	endo-1,4-beta-xyla	quinoline 2-oxidor	C 3.4.25.1 proteas	neomyosuppressin -	4	ord >	gene NF2 protein -	118K stomach cance	<u>a</u>	ribosomal protein		cytochrome-c oxida	beta-galactosidase	probable secreted	O		cytochrome-c oxida		virG protein - Agr	-	rotase	brane pr	Description	

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alcohol dehydrogen hydrogensulfite re	ELAV-like neuronal	glyceraldehyde-3-p unidentified 6.0/1	monodehydroascorba	small nuclear ribo	bothropstoxin - ja	FMRFamide-like pro	24K protein 4302 -	PV1 protein - huma	neurokinin A - Atl	neurokinin A – rai	hypothetical prote	thrombospondin 2 -	ubiquinol-cytochro

## ALIGNMENTS

Query Match  38.9%; Score 21; DB 2; Length 11;  Best Local Similarity 37.5%; Pred. No. 9.2e+02;  Matches 3; Conservative 3; Mismatches 2; Indels 0; Gaps	A3917 A3917 dihydroorotase (EC 3.5.2.3) - Chinese hamster (fragment) C:Species: Cricetulus griseus (Chinese hamster) C:Species: Cricetulus griseus (Chinese hamster) C:Dete: 09-Mar-1990 #sequence_revision 09-Mar-1990 #text_change 07-Nov-1997 C:Accession: A33917 R:Simmer, J.P.; Kelly, R.E.; Scully, J.L.; Grayson, D.R.; Rinker Jr., A.G.; Bergh, S. Proc. Natl. Acad. Sci. U.S.A. 86, 4382-4386, 1989 A;Title: Mammalian aspartate transcarbamylase (ATCase): sequence of the ATCase domain A;Reference number: A33917; MUID:89282776; PMID:2543974 A;Ccession: A33917 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-11 <sim>A;Cross-references: G8:M23652 C:Superfamily: rudimentary enzyme; aspartate/ornithine carbamoyltransferase homology; arbamoyl-phosphate synthase (glutamine-hydrolyzing) large chain homology; carbamoyl-ricks: hydrolase</sim>	Pred. No. 2.8e+05; 9 Mismatches 1	RESULT 1 PQ0663 membrane protein - porcine epidemic diarrhea virus (isolate Belgian CV777) (fragment) C;Species: porcine epidemic diarrhea virus C;Date: 14-Jul-1994 #sequence_revision 14-Jul-1994 #text_change 08-Oct-1999 C;Accession: PQ0663 R;Bridgen, A; Duarte, M.; Tobler, K.; Laude, H.; Ackermann, M. J. Gen. Virol. 74, 1795-1804, 1993 A;Title: Sequence determination of the nucleocapsid protein gene of the porcine epide issible gastroenteritis virus. A;Reference number: JQ2191; MUID:93389433; PMID:8397280 A;Accession: PQ0663 A;Molecule type: mRNA A;Residues: 1-7 -GRID A;Cromment: This virus is coronavirus related to human coronavirus 229E. C;Keywords: membrane protein 38.9%; Score 21; DB 2; Length 7;
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hydrogensulfite reductase (EC 1.8.99.3) chain 1 - Desulfovibrio thermophilus (fragment) N;Alternate names: bisulfite reductase; desulfofuscidin C;Species: Desulfovibrio thermophilus C;Date: 19-Mar-1997 #sequence_revision 30-Jan-1998 #text_change 30-Jan-1998 C;Accession: S11024 R;Fauque, G.; Lino, A.R.; Czechowski, M.; Kang, L.; DerVartanian, D.V.; Moura, J.J.G.; Biochim. Biophys. Acta 1040, 112-118, 1990
                                                                                                                            A; Molecule type: protein A; Residues: 1-6 <FAU> C; Keywords: oxidoreductase
                                                                                                                                                                                        Biochim. Biophys. Acta 1040, 112-118, 1990
A;Tltle: Purlfication and Characterization of bisulfite reductase (desulfofuscidin) from A;Reference number: S11024; MUID:90335276; PMID:2165817
A;Accession: S11024
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A:Title: Binding of the regulatory protein VirG to the phased A:Reference number: S13224; MUID:91039316; PMID:2231718
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           virG protein - Agrobacterium sp. (fragment)
C;Species: Agrobacterium sp.
C;Date: 19-Mar-1997 #sequence_revision 01-Aug-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Reference number: A28709; MUID:88241058; PMID:3132206
A;Accession: A28709
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-7 <OLS>
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R;Olsen, D.B.; Hepburn, T.W.; Moos, M.; Mariano, Biochemistry 27, 2229-2234, 1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Status: preliminary
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C;Date: 22-Aug-1988 #sequence_revision
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Pred. No. 2.8e+05;
0; Mismatches 1
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1.9e+03;
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2.8e+05;
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                   A;Molecule type: protein A;Residues: 1-10 <LET> C:Comment: Complex I, mitochondrial NADH-ubiquiquinone reductase, ranging from 5K to 75K.
                                                                                                 A;Title: Purification and preliminary characterization of mitochondrial complex I (NA A;Reference number: PQ0775; MUID:94151437; PMID:8108509 A;Accession: PQ0783
                                                                                                                                                                                                                                                                                                                  PQ0783
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Plant Physiol. 102, 435-4
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This

enzyme catalyzes

electron

transfer

from

endogenous NADH to ubiquinone

is

the

first

of

435-443, 1993

03-Jun-2002

(fragment) chain

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hypothetical protein - parsley
C;SpecLes: Petroselinum crispum (parsley)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Sep-1999
C;Accession: T14906
                                                                                                                                                                                                               A; Title: Functional analysis of a light-responsive plant A; Reference number: Z18259; MUID:95128172; PMID:7827494 A; Accession: T14906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R:Freund, R.; Kadenbach, B.
Eur. J. Biochem. 221, 1111-1116, 1994
A:Title: Identification of tissue-specific
A:Reference number: S43624; MUID:94237150;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cytochrome-c oxidase (EC 1.9.3.1) chain VIIa, cardiac - rainbow trout (frag
C;Species: Oncorhynchus mykiss (rainbow trout)
C;Date: 20-Oct-1994 #sequence_revision 01-Nov-1996 #text_change 16-Jul-1999
                                                                                                                                        A; Cross-references: EMBL:S75395;
                                                                                                                                                         A; Molecule type: DNA
A; Residues: 1-8 <FEL>
                                                                                                                                                                                                                                                                 R;Feldbrugge, M.; Sprenger, M.; Dinkelbach, M.; Yazaki, Plant Cell 6, 1607-1621, 1994
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REDIT J. Blochem. 230, 235-241, 1995
Bur. J. Blochem. 230, 235-241, 1995
A;Title: Cytochrome-c oxidase in developing rat heart. Enzymic properties and amino-term A;Reference number: S65372; MUID:95324529; PMID:7601105
A;Accession: S65385
                                                          cytochrome-c oxidase (EC 1.9.3.1) chain VIIa, C;Species: Rattus norvegicus (Norway rat) C;Date: 12-Feb-1998 #sequence_revision 20-Feb-C;Accession: S65385 R;Scheegger, H.; Noack, H.; Halangk, W.; Brancester, R;Scheegger, H.; Noack, H.; Halangk, W.;
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S59625
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Biochem. J. 312, 281-286, 1995
A;Title: Catalysis by the large subunit of
A;Reference number: S59625; MUID:96077156;
                                                                                                                                                                                                                                                                                                                                                                                                                                       C;Species: Escherichia coli
C;Date: 20-Jul-1996 #sequence_revision
C;Accession: S59625
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A; Reference number: S33518
A; Accession: S33519
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A; Residues: 1-11 <BOY>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29.6%;
66.7%;
                                                                                                                                                                                                                                                                         27.8%;
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50.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NID: g311706; PIDN: CAA80495.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 16; Pred. No.
                                                                                                                                                                                                                                                                         Score 15; DB 2;
Pred. No. 1e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 16; DB 2;
Pred. No. 7.4e+03;
L; Mismatches 3
                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Acholeplasma laidlawii which restore export of beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-Mar-1997
                                                                                         20-Feb-1998 #text_change 07-May-1999
                                                                                                                                                                                                                                                                                                                                                                             the second beta-galactosidase of Escherichia PMID:7492325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 2;
6.7e+03;
                                                                                                                       hepatic -
                                                                                                                                                                                                                                                                                                                                                                                                                                                      #text_change
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                                                                                                                        rat (fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PID:g311708
                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-May-1999
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C.Accession: JH0784
C.Accession: JH0784
C.Accession: JH0784
R.Smart, D.; Shaw, C.; Curry, W.J.; Johnston, C.F.; Thim, L.; Halton, D.W.; Buchanan, R.Smart, D.; Shaw, C.; Commun. 187, 1323-1329, 1992
Blochem. Biophys. Res. Commun. 187, 1323-1329, 1992
A;Title: The primary structure of TE-6: a novel neuropeptide from the nematode Ascari A;Reference number: JH0784; MUID:93038603; PMID:1417808
peptidyl-dipeptidase A inhibitory peptide C105 - striped bonito (;Species: Sarda orientalis (striped bonito C;Date: 10-Mar-1994 #sequence_revision 10-Mar-1994 #text_change C;Accession: JN0859 R;Matsumura, N.; Fujii, M.; Takeda, Y.; Shimizu, T. Biotechmol. Biochem. 57, 1743-1744, 1993 A;Reference number: JN0859; MUID:94080036; PMID:7764272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 13
S78764
                                                                                                                                                                                                                                                 Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C;Species: Bos primigenius taurus (cattle)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change
C;Accession: S78764
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          neuropeptide TE-6 - pig roundworm (fragment)
C;Species: Ascaris suum (pig roundworm)
C;Date: 10-Jun-1993 #sequence_revision 10-Jun-1993 #text_change 28-Apr-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        В
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                                                                                                                                                                                                                  DЬ
                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: protein A; Residues: 1-6 <GRA> C; Keywords: mitochondrion
                                                                                                                                                                                                                                                                                                                                                                                                                              A; Reference number: A; Accession: S78764
                                                                                                                                                                                                                                                                                                                                                                                                                                                               submitted to the Protein Sequence Database, July 1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     R;Graack,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Experimental source: gonoduct C; Keywords: neuropeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Molecule type: protein A; Residues: 1-6 <SMA>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Residues: 1-10 <SCH>
C;Keywords: oxidoreductase
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                                                                                                                                                            RESULT 14
                                                                                                                                                                                                                                                                                                                                                          F;1-6/Product: ribosomal protein MRP-S23 (fragment) #status experimental <MAT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ribosomal protein MRP-S23, mitochondrial -
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  type: protein: 1-10 <SCH>
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3; Conser
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nilarity 100.0%;
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3; Mismatches
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Pred. No. 2.
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2.8e+05;
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2.8e+05;
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1e+04;
                                                                                          #text_change 07-May-1999
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                    I-converting
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                      enzyme inhibitory
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118K stomach cancer antigen - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 112-Feb-1993 #sequence_revision 12-Feb-1993 #text_change 17-Mar-1999
C;Accession: A60356
R;Shiraishi, Y.
Int. J. Cancer 45, 783-787, 1990
A;Title: Western blotting analysis for malignant lymphoma and stomach cancer antigens fr A;Reference number: A60356; MUID:90216080; PMID:2323853
A;Accession: A60356
A;Molecule type: protein
A;Residues: 1-9 <SHI>C;Keywords: glycoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Accession: JN0859
A;Accession: JN0859
A;Molecule type: protein
A;Residues: 1-7 <MAT>
A;Residues: 1-7 <MAT>
A;Experimental source: intestine
C;Comment: The carboxyl-terminus is essential for the protein's expression of angiotensic;Superfamily: bradykinin-potentiating peptide
C;Superfamily: bradykinin-converting enzyme inhibitor
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Search completed: February 8, 2003, 10:59:06 Job time: 15 secs
                                                                                                                                                                     Query Match 25.9%;
Best Local Similarity 42.9%;
Matches 3; Conservative
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2 VAKLE 6
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Local Similarity 60.0%;
hes 3; Conservative
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                                                                                                                                                                   Score 14; DB 2; Le Pred. No. 2.8e+05; 2; Mismatches 2;
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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            Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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// cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep: *
// cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep: *
// cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep: *
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// cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep: *
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// cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep: *
// cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep: *
// cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep: *
// cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep: *
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         2003,
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            US-09-984-056-92
US-09-984-057-69
US-09-984-765-258
US-09-834-765-325
US-09-834-765-63
US-09-834-765-63
US-09-872-832-41
US-09-872-832-41
US-09-834-765-284
US-09-834-765-284
US-09-834-765-666
US-09-834-765-666
US-09-834-765-386
US-09-134-520-72
US-09-734-520-72
US-09-734-520-72
US-10-012-034A-72
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22.169 Million cell updates/sec
    Sequence 46, Sequence 20, Sequence 16,
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                                                                    Sequence 92, Appl Sequence 69, Appl Sequence 258, App Sequence 325, App Sequence 38, Appl Sequence 41, Appl Sequence 284, Appl Sequence 666, App Sequence 72, Appl Sequence 72, Appl Sequence 72, Appl Sequence 72, Appl Sequence 72, Appl Sequence 72, Appl Sequence 72, Appl Sequence 72, Appl Sequence 72, Appl Sequence 72, Appl Sequence 72, Appl Sequence 72, Appl Sequence 73, Appl Sequence 74, Appl Sequence 75, Appl Sequence 76, Appl Sequence 76, Appl Sequence 77, Appl Sequence 76, Appl Sequence 76, Appl Sequence 77, Appl Sequence 76, Appl Sequence 77, Appl Sequence 78, Appl Sequence 88, Appl Sequence 78, Appl Sequence 88, Appl Sequenc
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	38.9	•	-	•	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
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03-09-020-1//-32	US-09-805-301-3	US-09-878-603-23	US-09-942-121-7	US-09-933-999A-20	US-10-012-034A-123	US-10-012-034A-112	US-10-012-034A-111	US-10-012-034A-109	US-10-012-034A-104	US-10-012-034A-102	US-10-012-034A-57	US-09-734-520-112	US-09-734-520-111	US-09-734-520-109	US-09-734-520-104	US-09-734-520-102	US-09-734-520-57	US-10-012-034A-113	US-10-012-034A-99	US-10-012-034A-98	US-09-984-057-3	US-09-984-056-3	US-09-734-520-113	US-09-734-520-99	US-09-734-520-98
sequence 32, Appr	3, Ap	Sequence 23, Appl	Sequence 7, Appli	20,	Sequence 123, App	Sequence 112, App	Sequence 111, App	Sequence 109, App	10		Sequence 57, Appl	Sequence 112, App	111,	109,		-	Sequence 57, Appl	Sequence 113, App	`	98,	Sequence 3, Appli	Sequence 3, Appli	Sequence 113, App	Sequence 99, Appl	•

### ALIGNMENTS

RESULT 1 US-09-984-056-92

GENERAL INFORMATION:

APPLICANT: BOGOCH, SAMUEL APPLICANT: BOGOCH, ELENO

Sequence 92, Application US/09984056 Patent No. US20020120106A1

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CURRENT APPLICATION NUMBER: US/09/984,056
CURRENT FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR FILING DATE: 1998-09-04
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 09/817,139
PRIOR FILING DATE: 1994-02-17
NUMBER OF SEQ ID NOS: 103
SOFTWARE: PATENTIN 2.1
SEQ ID NO 92
LENGTH: 9
RESULT 2
US-09-984-056-69
; Sequence 69, Application US/09984056
; Patent No. US20020120106A1
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                                                                                                                                                                                                                                                                                                                     ; TYPE: PRT ; ORGANISM: Bacillus anthracis US-09-984-056-92
                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 4; Conserv
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TITLE OF INVENTION: ANTHRAX AND SMALL POX REPLIKINS AND METHODS OF USE
FILE REFERENCE: 09425-46903
                                                                                                                                           1 KHIVKIE 7
                                                                                                                                                                                     5 KHVVKLK 11
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                                                                                                                                                                                                                                                       51.9%;
57.1%;
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Pred. No. 1.1e+05;
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US-09-984-057-69
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CURRENT APPLICATION NUMBER: US/09/984,057

CURRENT FILING DATE: 2001-10-26

PRIOR APPLICATION NUMBER: 60/303,396

PRIOR FILING DATE: 2001-07-09

PRIOR APPLICATION NUMBER: 60/278,761

PRIOR FILING DATE: 2001-03-27

PRIOR APPLICATION NUMBER: 09/2146,755

PRIOR APPLICATION NUMBER: 09/146,755

PRIOR APPLICATION NUMBER: 09/817,144

PRIOR APPLICATION NUMBER: 09/817,144
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US-09-984-056-69
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CURRENT FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR PPLICATION NUMBER: 60/278,761
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR APPLICATION NUMBER: 09/147,144
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR FILING DATE: 1986-09-04
PRIOR FILING DATE: 2001-03-27
                                                                                        Query Match
Best Local Similarity
Matches 5; Conserv
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SEQ ID NO 69
LENGTH: 8
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PRIOR FILING DATE: 1994-02-17
NUMBER OF SEQ ID NOS: 103
SOFTWARE: Patentin 2.1
SEQ ID NO 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
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Patent No. US20020151677A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 44.4%;
Best Local Similarity 71.4%;
Matches 5; Conservative
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PRIOR APPLICATION NUMBER: 08/198,139
PRIOR FILING DATE: 1994-02-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: BOGOCH, ELENORE S.
TITLE OF INVENTION: REPLIKINS AND METHODS OF IDENTIFYING
TITLE OF INVENTION: REPLIKIN-CONTAINING SEQUENCES
                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQ ID NOS: 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: BOGOCH, SAMUEL APPLICANT: BOGOCH, ELENC
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APPLICANT: BOGOCH, ELENORE S.
TITLE OF INVENTION: ANTHRAX AND SMALL POX REPLIKINS AND METHODS OF USE FILE REFERENCE: 09425-46903
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                   | KIKHVVK 9
KKKHTVK 7
                                                                                           Conservative
                                                                                                              44.48;
71.48;
                                                                                        Score 24; DB 10;
Pred. No. 1.1e+05;
0; Mismatches 2
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Pred. No. 1.1e+05;
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                                                                                                                                  Length 8;
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APPLICANT: Steve Chappell Mitchell
APPLICANT: Daniel E.H. Afar
APPLICANT: Aya Jakobovits
TITLE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN
TITLE OF INVENTION: AND DETECTION OF CANCER
FILE REFERENCE: 129 6USU1
CURRENT APPLICATION NUMBER: US/09/834,765
CURRENT FILING DATE: 2001-09-21
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US-09-834-765-258
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; LENGTH: 9
; TYPE: PRT
                                                                    Query Match
Best Local Similarity
Matches 4; Conserv
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 325
LENGTH: 9
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Best Local :
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APPLICANT: Daniel E.H. Afar
APPLICANT: Aya Jakobovits
TITLE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT
TITLE OF INVENTION: AND DETECTION OF CANCER
FILE REFERENCE: 129.6USU1
CURRENT APPLICATION NUMBER: US/09/834,765
CURRENT APPLICATION NUMBER: 00/197,647
PRIOR APPLICATION NUMBER: 60/197,647
PRIOR APPLICATION NUMBER: 60/197,647
PRIOR PILING DATE: 2000-04-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Mary Faris
APPLICANT: Pia M. Challita-Eid
APPLICANT: Arthur B. Raitano
APPLICANT: Steve Chappell Mitcl
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PRIOR FILING DATE: 2000-04-12
NUMBER OF SEQ ID NOS: 770
SOFTWARE: FastSEQ for Windows Version 4.0
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APPLICANT: Pia M. Challita-Eid
                                                                                                                                                                                                          TYPE: PRT
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2 OPYEHVIK 9
                                    2 QKIKHVVK 9
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                                                                               Conservative
                                                                                                44.48;
50.08;
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                                                                             Score 24; DB 10;
Pred. No. 1.1e+05;
2; Mismatches 2
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Pred. No. 1.1e+05;
2; Mismatches 2
                                                                                                                    Length 9;
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; Sequence 643, Application US/09834765

US-09-834-765-643

RESULT 6

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                                                                                                                                       Sequence 41, Application US/09872832 Patent No. US20020131960A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn version 3.0 SEQ ID NO 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
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Patent No. US20020131960A1
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Memorial Sloan-Kettering Cancer Center
TITLE OF INVENTION: ARTIFICIAL ANTIGEN PRESENTING CELLS AND METHODS OF USE THEREOF
FILE REFERENCE: 830002-2003.1
CURRENT APPLICATION NUMBER: US/09/872,832
CURRENT FILING DATE: 2001-06-01
APPLICANT: Memorial Sloan-Kettering Cancer Center TITLE OF INVENTION: ARTIFICIAL ANTIGEN PRESENTING FILE REFERENCE: 830002-2003.1

CURRENT APPLICATION NUMBER: US/09/872,832

CURRENT FILING DATE: 2001-06-01

PRIOR APPLICATION NUMBER: 60/209,157

PRIOR FILING DATE: 2000-02-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT TITLE OF INVENTION: AND DETECTION OF CANCER FILE REFERENCE: 129.60SU1
CURRENT APPLICATION NUMBER: US/09/834,765
CURRENT FILING DATE: 2001-09-21
PRIOR APPLICATION NUMBER: 60/197,647
PRIOR APPLICATION NUMBER: 60/197,647
PRIOR FILING DATE: 2000-04-12
NUMBER OF SEQ. ID NOS: 770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: 60/209,157
PRIOR FILING DATE: 2000-02-06
NUMBER OF SEQ ID NOS: 49
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: FastSEQ for Windows Version 4.0
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TYPE: PRT
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nes 4; Conserv
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Local Similarity 50.08;
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                                                                                                                                                                                                                                                                                                                         2 QKIKHVVK 9
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Arthur B. Raitano
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                                                                                                                                                                                                                                                                                                                                                                 Conservative
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Pred. No. 1.1e+05;
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Pred. No. 1.1e+05;
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                                                                                                   CELLS AND METHODS OF USE THEREOF
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; ORGANISM: Homo sapiens US-09-834-765-89
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                                                                                                                                                                                                                                                                                           ; Sequence 2
; Patent No.
                                                                                                                                                                                                                                                                           ; GENERAL INFORMATION:
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 89
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Best Local Similarity
Matches 4; Conserv
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 41
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Best Local Similarity
Matches 4; Conserv
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NUMBER OF SEQ ID NOS: 770
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 284
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                                               APPLICANT: Aya Jakobovits
TITLE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT
TITLE OF INVENTION: AND DETECTION OF CANCER
FILE REFERENCE: 129.6USU1
CURRENT APPLICATION NUMBER: US/09/834,765
CURRENT FILING DATE: 2001-09-21
PRIOR APPLICATION NUMBER: 60/197,647
PRIOR FILING DATE: 2000-04-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT TITLE OF INVENTION: AND DETECTION OF CANCER FILE REFERENCE: 129.608'ull CURRENT APPLICATION NUMBER: US/09/834,765 CURRENT FILING DATE: 2001-09-21 CURRENT FILING DATE: 2001-09-21
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TYPE: PRT
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PRIOR FILING DATE: 2000-04-12
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TYPE: PRT
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Arthur B. Raitano
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TITLE OF INVENTION: AND DETECTION OF CANCER
FILE REFERENCE: 129.6USU1
CURRENT APPLICATION NUMBER: US/09/834,765
CURRENT FILING DATE: 2001-09-21
PRIOR APPLICATION NUMBER: 60/197,647
PRIOR APPLICATION NUMBER: 60/197,647
PRIOR FILING DATE: 2000-04-12
NUMBER OF SEQ ID NOS: 770
SOFTWARE: FOSCES for Windows Version 4.0
SEQ ID NO 386
LENGTH: 10
ORGANISM: Homo Sapiens
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Watches 4; Conserve
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-834-765-284
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                                                  SOFTWARE: FastSEQ for Windows Version 4.0 SEQ 15) NO 666
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                                                                                                     APPLICANT: AYA JAKOBOVÍLS
TITLE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT
TITLE OF INVENTION: AND DETECTION OF CANCER
FILE REFERENCE: 129.6USU1
CURRENT APPLICATION NUMBER: US/09/834,765
CURRENT FILING DATE: 2001-09-21
PRIOR APPLICATION NUMBER: 60/197,647
PRIOR APPLICATION NUMBER: 60/197,647
PRIOR FILING DATE: 2000-04-12
                                                                                                                                                                                                                                                 APPLICANT: Mary Faris
APPLICANT: Pia M. Challita-Eid
APPLICANT: Arthur B. Raitano
APPLICANT: Steve Chappell Mitchell
APPLICANT: Daniel E.H. Afar
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APPLICANT: Pid M. Challita-Eid
APPLICANT: Arthur B. Raitano
APPLICANT: Steve Chappell Mitchell
APPLICANT: Daniel E.H. Afar
                                                                                          NUMBER OF SEQ ID NOS: 770
                  TYPE: PRT
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ORGANISM: Homo sapiens
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Pred. No.
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96;
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RESULT 14
US-09-734-520-88
US-09-734-520-88; Application US/09734520; Patent No. US20020115173A1
; GENERAL INFORMATION:
CONTRACTOR Shmuel
                                ; NAME/KEY: AMIDATION
; LOCATION: (0)...(11)
US-09-734-520-88
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US-09-734-520-72
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 88
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TITLE OF INVENTION: SHORT PEPTIDES FROM THE A-REGION
TITLE OF INVENTION: PROTEIN KINASES WHICH SELECTIVELY
TITLE OF INVENTION: ACTIVITY
FILE REFERENCE: 1242.2003-000
CURRENT APPLICATION UNMEER: US/09/734,520
CURRENT APPLICATION TO ACTIVITY
RUMBER OF SEQ ID NOS: 122
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 72
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Best Local Similarity
Matches 4; Conserv
Query Match
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TITLE OF INVENTION: SHORT PERTIDES FROM THE A-REGION OF
TITLE OF INVENTION: PROTEIN KINASES WHICH SELECTIVELY MODULATE PROTEIN KINASE
TITLE OF INVENTION: ACTIVITY
FILE REFERENCE: 1242.2003-000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
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OTHER INFORMATION: FOUR PROPERTY OF THE NAME/KEY: MYRISTATE LOCATION: (1)...(0)
NAME/KEY: AMIDATION
LOCATION: (0)...(11)
                                                                                     OTHER INFORMATION: Ret NAME/KEY: MYRISTATE LOCATION: (1) ...(0)
                                                                                                                                          LENGTH: 11
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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TYPE: PRT
ORGANISM: Artificial Sequence
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les 4; Conserv
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   Score 24;
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Pred. No.
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Pred. No. 1.
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96;
   DB 10;
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Length 11;
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RESULT 15
US-10-012-034A-72
Sequence 72, Application US/10012034A
Patent No. US20020137141A1
GENERAL INFORMATION:
APPLICANT: Ben-Sasson, Shmuel
TITLE OF INVENTION: SHORT PEPTIDES FROM THE A-REGION OF
TITLE OF INVENTION: PROTEIN KINASES WHICH SELECTIVELY MODULATE PROTEIN KINASE
TITLE OF INVENTION ACTIVITY
FILE REFERENCE: BEN-SASSON-5A
CURRENT APPLICATION NUMBER: US/10/012,034A
CURRENT FILING DATE: 2001-12-11
PRIOR APPLICATION NUMBER: 09/734,520
PRIOR APPLICATION NUMBER: 09/734,520
PRIOR APPLICATION STEEL 2001-12-11
UNUMBER OF SEQ ID NOS: 13
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 72
LENGTH: 11
TYPE: PRI
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Fak
                                                                                                                                                                                                                        FEATURE:
NAME/KEY: MYRISTATE
LOCATION: (1)...(0)
FEATURE:
NAME/KEY: AMIDATION
LOCATION: (0)...(11)
US-10-012-034A-72
Search completed: February 8, 2003, 11:02:27 Job time : 11 secs
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                                                                                                                                         Query Match
Best Local Similarity 80.0
Matches 4; Conservative
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Matches 4; Conservative
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7 HVIKL 11
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1; Mismatches 0; Indels
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OM protein - protein search, using sw model

Run on: February 8, 2003, 10:54:26; Search time 11 Seconds (without alignments) 41.476 Million cell updates/sec

Title:
Perfect score:
Sequence: US-09-685-010-30 54 1 KQKIKHVVKLK 11

Scoring table:

Searched: 112892 seqs, 41476328 residues BLOSUM62 Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters:

411

Minimum DB seq length: 0 Maximum DB seq length: 11

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

SwissProt\_40:\*

Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

20 33 33	Result
115 115 115 115 114 114 114 115 117 117 117 117 117 117 117 117 117	Score
33.3 27.8 27.8 27.8 27.8 27.8 27.8 27.8 27.8	% Query Match I
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P21144 P80332 P31929 P31929 P39261 P80717 P38553 P41494 P8046464 P8046464 P31890 P38007 P01153 P18631 P18651	Descr
44 leucophaea 32 oncorhynchu 95 homo sapien 77 dictyoglomu 73 locusta mig 94 drosophila 95 bacillus su 96 comamonas t 97 ascaris su 97 sunduca sex 98 campylobact 98 campylobact 99 chlamydia t 99 chlamydia t 99 sus scrofa 11 stabhylococ 97 conus marmo 98 mus musculu 98 corphyromon 99 totalaria mig 90 locusta mig 90 locus	Description

10 18.5 11 1 BPPB_AGKHA 10 18.5 11 1 MHBI_KLEPN 10 18.5 11 1 TINA_HOPTI 10 18.5 11 1 TINA_HOPTI 10 16.7 3 1 THYL_PIG 11 1.7 3 1 THYL_PIG 11 1.7 9 1 BUK_CLOPA 11 1.7 9 1 COND_COUNGE 11 1.7 9 1 CONE_THUOB 11 1.7 9 1 LITO_LITAU 11 1.7 9 1 NSKI_SARBU 11 1.7 9 1 PGLR_DIAAB	18.5 18.5 11 18.5 11 16.7 3 16.7 3 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 9 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 1
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# ALIGNMENTS

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Eur. J. Biochen
-!- FUNCTION: 1
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Hughes G.J., Frutiger S., Paquet N., Pasquali C., 9
Tissot J.-D., Bairoch A., Appel R.D., Hochstrasser
"Human liver protein map: update 1993.";
Electrophoresis 14:1216-1222(1993).
-I- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI
PROTEIN IS: 6, ITS MW IS: 15 kDa.
NCBI_TGID=23207;
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01-JUL-1993 (Rel. 26, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Unknown protein from 2D-page of liver tissue
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P31929;
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J. Biochem. 221:1111-1116(1994).
FUNCTION: THIS PROTEIN IS ONE OF THE NUCLEAR-CODED POLYPEPTIDE CHAINS OF CYTOCHROME C OXIDASE, THE TERMINAL OXIDASE IN MITOCHONDRIAL ELECTRON TRANSPORT.
CATALYTIC ACTIVITY: 4 ferrocytochrome c + 0(2) - 4 ferricytochrome + 2 H(2)0.
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               FARP_LOCMI STANDARD; PRT; 10 AA. P9855; 01-OCT-1994 (Rel. 30, Created) 01-OCT-1994 (Rel. 30, Last sequence update) 30-MAY-2000 (Rel. 39, Last annotation update) SchistoFLFFamide (PDVDHFLRF-amide) (Cardioexcitatory SchistoFLFFamide) (Migratory locust), and Schistocerca gregaria (Desert locust).
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01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
15-JUN-2002 (Rel. 41, Last annotation update)
15-JUN-2003 (Xylanase B (EC 3.2.1.8) (Xylanase
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SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (1,4-beta-D-xylan xylanohydrolase B) (Fragi
Dictyoglomus sp. (strain B4A).
Bacteria; Dictyoglomus group; Dictyoglomus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Xylan degradation; Hydrolase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPR001000; Glyco_hydro_10.
PROSITE; PS00591; GLYCOSYL_HYDROL_F10; PARTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=69007;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Glycosidase; Hydrolase; Glycoprotein; Multigene family. NON_TER 10 10
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"Prunus serotina amygdalin hydrolase a
Plant Physiol. 100:282-290(1992).
-i- CATALYTIC ACTIVITY: (R)-amygdalin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Seed;
Li C.P., Swa
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SUBUNIT: MONOMER.
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2; Conserv
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Metazoa;
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0 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1033 MW;
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Arthropoda;
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42.9%;
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40.0%;
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2; Mismatch
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Mandibulata;
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of 1,4-beta-D-xylosidic
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4.1e+03;
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Pancrustacea; Hexapoda
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NEMS_DROME
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Best Loc
Matches
SEQUENCE.

SEQUENCE.

SPECIES-S.bullata; TISSUE-Head;
SPECIES-S.bullata; TISSUE-Head;
MEDLINE-93047886; PubMed=1358537;
Fonagy A., Schoofs L., Proost P.,
Fonagy A., Schoofs L., Proost P.,
                                                                                                                                                                           SPECIES=D.melanogaster; MEDLINE=93002195; PubMe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SPECIES-S.gregaria; TISSUE-Thoracic nervous sy MEDLINE-89246543; PubMed-2719702; Robb S., Packman L.C., Evans P.D.; "Isolation, primary structure and bioactivity FMRF-amide-like neuropeptide from the locust,
                                                                                                                                                                                                                                        Eukaryota; Metazoa; Arthropoda; Mandibulata; Pancrustacea; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Braci Muscomorpha; Ephydroidea; Drosophilidae; Drosophila. NCBI_TaxID=7227, 7385;
                                                                                                                                                                                                                                                                                                                                                                         01-NOV-1995 (Rel.
01-NOV-1995 (Rel.
15-JUN-2002 (Rel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Neuropeptide;
MOD_RES
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Biochem, B
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SPECIES=L.migratoria;
                                                                                                                             TDVDHVFLRFamide
                                                                                                                                                                                                                                                                                                        Drosophila melanogaster (Fruit fly), Sarcophaga bullata (Grey flesh fly)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
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Acridomorpha; Acridoidea; Acrididae; Oedipodinae; Locusta.
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M. Biophys. Res. Commun. 150:830-730.

THE NEURAL CONTRO.

THE VISCERAL MUSCLES OF THE HEART, ACCESSORY GLANDS AND TIDUCT. MAY BE INVOLVED IN THE REGULATION OF SALIVA SECRETION. ISSUE SPECIFICITY: FOUND IN AXONS OF THE MALE ACCESSORY GLANDS, HE SALIVARY GLANDS, THE HEART, AND THE OVIJUCT.

HE SALIVARY GLANDS, THE FARP (FMRFAMIDE RELATED PEPTIDE)
                                                                                                               Neurosci.
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2; Conser
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                                                                                                                           structural characterization of Drosophila and FMRFamide-containing neural peptides
                                                                                                                                                                                                                                                                                                                                                                                                                                           STANDARD;
                                                                                                          and FMRFamide-containing i. 3:213-218(1992).
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                                                                                                                                                                                                                                                                                                                                                 32, Created;
32, Last sequence update;
41, Last annotation update;
41, Last annotation update;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ria; TISSUE=Brain;
PubMed=7687352;
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Pred. No. 6.3e
1; Mismatches
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D3C51729D2C1EAB2
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             Van Damme
synthesis
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Schistocerca
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             neomyosuppressin,
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Matches
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Bacteria; Firmicutes; Baci''
NCBI_TaxID=1423;
[1]
SEQUENCY
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Laybase; FBgn0011581; Dms.
Neuropeptide; Amidation
MOD_RES
STRAIN=63;
MEDLINE=96035889; E
Schach S., Tshisuak
"Quinoline 2-oxidor
                                                                                                                             __COMTE
Q2OA__COMTE
P80464;
                                                                  01-NOV-1995 (Rel. 32, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Quinoline 2-oxidoreductase, alpha chain (EC 1
Comamonas testosteroni (Pseudomonas testoster
Bacteria; Proteobacteria; beta subdivision; C
                                                                                                                                                                                                                                                                                                                   MEDLINE=96345629; PubMed=8755892;
MEDLINE=96345629; PubMed=8755892;
Graumann P., Schroeder K., Schmid R.
"Cold shock stress induced proteins
J. Bacteriol. 178:4611-4619(1996).
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                                                                                              01-NOV-1995 (Rel.
01-NOV-1995 (Rel.
16-OCT-2001 (Rel.
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bullata.";
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                                                         NCBI_TaxID=285;
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                                                                                                                                                                                                           VKLK 11
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2; Conserv
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2; Conserv
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P.L., Schmid
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 Tshisuaka B., Fet
2-oxidoreductase
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                                                                                                                                        STANDARD;
PubMed=7556204;
aka B., Fetzner
oreductase and 2
                                                                                                                                                                                                                                                                                                                                        PubMed=8755892;
beder K., Schmid R.,
                                                                                                                                                                                                                                                                   1360 MW;
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Pred. No. 6.8e
2; Mismatches
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6.8e+03;
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Best Local S
Matches 3
                                                                                                                                      Matches
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Best Local
                                                                                                                                                                                                      Neuropeptide; Amidation.
MOD_RES 7 7
SEQUENCE 7 AA; 992 MW.
                                                                                                                                                                                                                                                                                          Maule A.G., Shaw C., Bowman J.W.;
"The FMRFamide-like neuropeptide AF2 (Ascaris suum) is free-living nematode, Panagrellus redivivus (Nematoda, Parasitology 109:351-356(1994).
-I- FUNCTION: HAS EFFECTS ON MUSCLE TENSION.
-I- TISSUE SPECIFICITY: FOUND IN THE NERVE CORDS AND A GANGLIA PARTICULARLY IN THE ANTERIOR REGIONS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-JUL-1993 (Rel. 26, Created)
01-JUL-1993 (Rel. 26, Last sequence up
01-FEB-1996 (Rel. 33, Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cowden C., Stretton A.O.W.: "AF2, an Ascaris neuropeptide: isolation, Peptides 14:423-430(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ascaris suum (Pig roundworm) (Ascaris lumbricoides), and
Panagrellus redivivus.
Panagrellus redivivus.
Panagrellus redivivus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                   SPECIES-P. redivivus;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ascarididae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CATALYTIC ACTIVITY: Quinoline + acceptor + 1(2H)-one + reduced acceptor.
COPACTOR: FAD, MOLYBDENUM AND IRON-SULFUR.
PATHWAY: FIRST STEP IN THE DEGRADATION OF Q
                                                                                                                                                                                                                                                                            SIMILARITY: BELONGS TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (3-METHYL-)QUINOLINE.
SUBUNIT: HETEROHEXAMER OF TWO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     noline and 3-methylquinoline degradation."
J. Biochem. 232:336-544(1995).
FUNCTION: CONVERTS (3-METHYL-)-QUINOLINE
1,2-DIHYDROQUINOLINE.
                                                                                                                                                                                                                                                             FAMILY
                                                                 *KH
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                                                                                                                                                                                                                                                                                                                                                                                                               PubMed=7970891;
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1; Mismatches
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Pred. No.
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RESULT 12
FARP_MANSE
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Matches 2
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P18523;
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01-FEB-1994 (Rel. 28, Last sequence up
01-NOV-1995 (Rel. 32, Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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30-MAY-2000
30-MAY-2000
15-JUN-2002
Amidation;
                  PIR;
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                                                                                   Peptides 11:849-856(1990),
-i- FUNCTION: INCREASES THE FORCE OF
-THE MAJOR POWER-PRODUCING FLIGHT
MUSCLES AND SO IS LIKELY TO PLAY
                                                                                                                                                                                               Hunt D.F.;
                                                                                                                                                                                                              MEDLINE-91045350; PubMed-2235684;
Kingan T.G., Teplow D.B., Phillips J.M.,
Hildebrand J.G., Homberg U., Kammer A.E.,
                                                                                                                                                                                                                                                                       SEQUENCE.
                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Arthropoda; Mandibulata; Pancrustacea.
Insecta; Pterygota; Neoptera; Endopterygota; Lepidoptera;
Ditrysia; Sphingiodea; Sphingidae; Sphinginae; Manduca.
NCBI_TaxID-7130;
                                                                                                                                                                                                                                                                                                                                                                             Manduca sexta (Tobacco hawkmoth) (Tobacco hornworm)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Noorani S.M., Lindahl L., Zengel J.M.;
Submitted (APR-1998) to the EMBL/GenBank/DDBJ databases
-!- FUNCTION: Involved in the binding of tRNA to the ri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Serratia.
NCBI_TaxID=615;
                                                                                                                                                            "A new peptide in the FMRFamide hawkmoth, Manduca sexta.";
                                                                                                                                                                                                                                                                                                                                                                                                FMRFamide-like neuropeptide.
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or send an email to license@isb-sib.ch)
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Bacteria; Proteobacteria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -!- SUBUNIT: HOMODIMER (BY SIMILARITY).
-!- SUBCELLULAR LOCATION: Cytoplasmic.
-!- SIMILARITY: BELONGS TO CLASS-II AMINOACYL-TRNA SYNTHETASE FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    genome
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Bacteria; Chlamydiales; Chlamydiaceae; Chlamydia
NCBI_TaxID=813;
                                                                                                                                                                                                                                    01-OCT-1994 (Rel. 30, Created)
01-OCT-1994 (Rel. 30, Last sequenc
30-MAY-2000 (Rel. 39, Last annotat
Unknown protein from 2D-page from
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"Substance-P-related and neurokinin-A-related of the cod and trout.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebr
Actinopterygii; Neopterygii; Teleostei; Euteleo
Protacanthopterygii; Salmoniformes; Salmonidae;
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Oncorhynchus mykiss (Rainbow trout) (Salmo Gadus morhua (Atlantic cod).
                                                                                                                                 Submitted (SEP-1994) to the SWISS-PROT data
                                                                                                                                                   STRAIN=L2/434/Bu;
Bini L., Santucci A., Magi
Comanducci M., Christianen
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01-OCT-1994
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FUNCTION: TACHYKININS ARE ACTIVE PEPTIDES WHICH EXCITE EVOKE BEHAVIORAL RESPONSES, ARE POTENT VASODILATORS AND SECRETAGOGUES, AND CONTRACT (DIRECTLY OR INDIRECTLY) M
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EMBL, Y00542; CAA68606 1.
Q34909 PRELIMINARY;
Q34909;
01-NOV-1996 (TrEMBLrel. 01,
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01-NOV-1996 (TrEMBLrel. 19, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Membrane protein (1 is 3rd base in codon) (Fragment).
Transmissible gastroenteritis virus.
Viruses; saRNA positive-strand viruses, no DNA stage; Nidovirales;
Coronaviridae; Coronavirus.
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42.9%;
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3; Mismatches
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P83158;
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01-DEC-2001
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                                                                                                                                                                                                                                                                                                                         Escherichia coli.
Bacteria; Proteobacteria;
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Th602: A naturally occurring relative
lasmid 17:202-209(1987).
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Q9FEC0;
01-MAR-2001
01-MAR-2001
01-MAR-2001
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SEQUENCE
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01-NOV-1996 (TrEMBLrel. 01, C:
01-NOV-1996 (TrEMBLrel. 21, L:
01-JUN-2002 (TrEMBLrel. 21, L:
DNA for ORF'S from chromosome
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PHOTOSYSTEM I COMPLEX.

PHOTOSYSTEM I COMPLEX.

SUBCELLULAR LOCATION: CYTOPLASMIC.

SIMILARITY: THE IRON-SULFUR CENTERS ARE SIM

BACTERIAL-TYPE' 4FE-4S FERREDOXINS.

Interpro; IPRO01450; 4Fe4S_FERREDOXIN; PARTIAL.

PROSITE; PS00198; 4FE4S_FERREDOXIN; PARTIAL.

PROSITE; PS00198; 4FE4S_FERREDOXIN; PARTIAL.
Hordeum vulgare (Barley).
Eukaryota; Viridiplantae;
                                                                                          Mla1uORF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Saccharomyces cerevisiae (Baker's yeast).
Eukaryota; Fungi; Ascomycota; Saccharomyc
Saccharomycetales; Saccharomycetaceae; Sa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q05403
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Apte S.K., Uhlemann E.,
Submitted (OCT-2001) to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Yeast 11:975-986(1995).
EMBL; X83121; CAA58183.1;
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Bacteria; Cyanobacteria; Nostocales; Nostocaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=4932;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           E., Pearson B.M., Kalogeropoulos A., 5 kb segment on the left arm of yeast twice as many unknown as known open
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                                                                                                                  (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
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57.1%;
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the SWISS-PROT data bank
N FOR THE IRON-SULFUR CEN
Streptophyta; Embryophyta; Tracheophyta;
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me XV (Fragment).
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OPROCA;
O1-MAY-2000 (TrEMBLrel. 13, Created)
O1-MAY-2000 (TrEMBLrel. 13, Last sequence update)
O1-MAY-2000 (TrEMBLrel. 19, Last annotation update)
O1-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Plasmid cp32-2, possible partition proteins (Fragmer Borrella burgdorferi (Lyme disease spirochete).
Plasmid cp32-2.
Plasmid cp32-2.
Spirochaetales; Spirochaetaceae; Borrelia
pacteria; Spirochaetales; Spirochaetaceae; Borrelia.
NCBI_TaxID=139;
[1]
                                                                                                                                                                                                                       Plasmid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN-CV. ALGERIAN;
Zhou F., Kurth J., Wei F., Elliott C., Vale G., Yahiaoui N.,
Keller B., Somerville S., Wise R., Schulze-lefert P.;
"Cell-autonomous Expression of Barley Mlal Confers Race-specific
Resistance to the Powdery Mildew Fungus via a Rarl Independent
Signaling Pathway.";
                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
MEDLINE-86041917; PubMed=3903662;
Narayanan C.S., Dubnau D.;
"Evidence for the translational are studies and structural analysis w
                                                                                                                                                                                                                                                                                                                                                                           01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-OCT-2000 (TrEMBLrel. 15, Last annotation update)
                                                                                          Q9R9C4
                                                                                                                                                                                                                                                                                                                                                 Staphylococcus aureus Plasmid pE194
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                                                                                                                                                                                                               SEQUENCE
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                                                                                                                                       EKNIKH 8
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AY009939; AAG37357.1;
AY009938; AAG37355.1;
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03097; CAA26883.1; -.
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                                                                                          PRELIMINARY;
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01-NOV-1999
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                                                                     052762 PRELIMINARY; PRT; 10 AA. 052762; O1-NOV-1996 (TrEMBLrel. 01, Created) 01-NOV-1996 (TrEMBLrel. 19, Last sequence up 01-DEC-2001 (TrEMBLrel. 19, Last annotation
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                             Dinitrogenase beta-subunit (Fragment). Rhizobium sp. cowpea (strain IRc78). Bacteria; Proteobacteria; alpha subdiv
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"Evidence of past recombination events among the genes encoding Erp antigens of Borrelia burgdorferi.";
Microbiology 144:1869-1879(1998).
EMBL; AF022479; AAC35438.1; -.
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STRAIN-B31;
MEDLINE=98361033; PubMed=9695920;
Rhizobiaceae; R
NCBI_TaxID=400;
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Anim. Genet. 32:19-26(2001).
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Cosenza G., Mariani P., Pastore N., Masina
"An allele associated with a non detectable
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Bovidae; Caprinae;
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Capra hircus (Goat).
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01-MAR-2002
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Urbach E., Chisholm S.W.;
Urbach E., Chisholm S.W.;
"Genetic diversity in Prochlorococcus populations sorted from the Sargasso Sea and Gulf Stream.";
Limnol. Oceanog. 43:1615-1630(1998).
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minimal age.";
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Prochlorococcus.
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Helicobacter.
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AJ418329; CAD11229.1; -
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42.9%;
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    subunit IV (Fragment).

                                                                                                                                                                                                                                                                          Prochlorophytes;
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2; Mismatches
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8.7e+03;
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Q8WXB5;
01-MAR-2002
01-MAR-2002
01-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q99MG3; PRELIMINARY;
Q99MG3; O1-JUN-2001 (TrEMBLrel. 17,
01-JUN-2001 (TrEMBLrel. 17,
01-JUN-2001 (TrEMBLrel. 17,
                                                                                                                                     Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.

More M.I., Kirsch F.P., Rathjen F.G.;

"Targeted ablation of NrCAM and ankyrin-B
fibres leading to cataract formation.";

fibres leading to the EMBL/GenBank/E
                                                                                "A novel eyes absent Gene 0:0-0(2002).
                                                                                                  Fee B.E.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                 NrCAM protein
Mus musculus (
                                                       SEQUENCE
                                                               EMBL; AF455148; AAL57875.1; NON_TER 10 10
                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                         EYA2B (Fragment)
                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                 EMBL; AF346472; AAK25814.1; NON_TER 9 9
                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                                                                                                              NCBI_TaxID=9606;
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nes 2; Conserv
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 3 KIKHVVKL 10
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                                                                                                                                                                                                                                                                                   3 KIKHV
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                  l Similarity
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                                                                                                 Doyle C.A.,
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(TrEMBLrel.
(TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11 AA;
                   Conservative
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                                                      1298 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1297 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                               Chordata;
Rodentia;
                           29.6%;
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                                                                                          protein
                                                                                          Cleveland protein is
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embL/GenBank/DDBJ
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Pred. No. 1.4e+0
                                                                                                                                                                                                                                                                                                     Pred. No. 6.7
                                                                                                                                                                                                                                                                                                                       Score 16;
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                                                                                                                                       Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                               Craniata; Ver
Sciurognathi;
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                   Mismatches
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RYKEMVEL

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RESULT 15
Q44090
Q44090
ID O44090;
AC Q44090;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 19, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Hypothetical export segment (Fragment).

OS Acholeplasma laidlawii:
OC Acholeplasmatales; Bacillus/Clostridium group; Mollicutes;
OC Acholeplasmatales; Acholeplasmataceae; Acholeplasma.

ON NCBL_TAXID=2148;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=A-EF22;
RA BOYER M.J. Jarhede T.K., Tegman V., Wieslander A.;
RF "Sequence regions from Acholeplasma laidlawii which restore export of RT beta-lactamase in Escherichia coll.";
RA BOYER M.J. Jarhede T.K., Tegman V., Wieslander A.;
RF "Sequence regions from Acholeplasma laidlawii which restore export of RT SEDUENCE 11 AA; 1234 MW; 5C9D2AEBA682C337 CRC64;
DE MBL; 222875; CAA80495.1; -.
FT NON_TER 11 11 11
SO SEQUENCE 11 AA; 1234 MW; 5C9D2AEBA682C337 CRC64;
Query Match
Best Local Similarity 50.0%; Pred. No. 2.1e+04;
Matches 4; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

OY 1 KOKIKHVV 8
L ! ! |
Db 3 KIXVMTVV 10

Search completed: February 8, 2003, 10:58:45
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Result
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Maximum DB
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Maximum Match 100%
Listing first 45 s
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                                                                                                                                        Score
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54
1 KQKIKHVVKLK 11
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2: //cgn2_6/ptodata/1/paa/US06_COMB.pep:*
2: //cgn2_6/ptodata/1/paa/US07_COMB.pep:*
2: //cgn2_6/ptodata/1/paa/US08_COMB.pep:*
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Copyright (c) 1993 - 2003 Compus
                                                                                                                                        Length
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                                                                                                                                          DB
  7 US-08-318-892-3
7 US-08-318-892B-3
15 US-09-169-077-1
18 US-09-424-292-4
20 US-09-685-010-30
23 US-09-978-309A-30
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Sequence 3, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 4, Appli
Sequence 30, Appl
Sequence 30, Appl
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1 318-892-3 318-892-3 ence 3, Application US/0 ePALICANT: Turley, Eva A ITLE OF INVENTION: HYAL ITLE OF INVENTION: FOR ITLE OF INVENTION: PEPT UMBER OF SEQUENCES: 29 ORRESPONDENCE ADDRESS:		49 90.7 10 445 83.3 9 445 83.3 9 446 83.3 9 447 75.9 10 34 63.0 7 31 57.4 9 31 57.4 9 31 57.4 9 31 57.4 9 31 57.4 9 31 57.4 9 31 57.4 9 31 57.4 9 31 57.4 9 32 57.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9 28 51.9 9	
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US-08-318-892-3

US-08-318-892-3

Sequence 3, Application US/08318892

GEMERAL INFORMATION:
APPLICANT: Tutley, EVA A

TITLE OF INVENTION: FOR HYALURONAN RECEPTOR (RHAMM = RECEPTOR TITLE OF INVENTION: FOR HYALURONAN MEDIATED MOBILITY) AND HYALURONAN BINDING TITLE OF INVENTION: PEPTIDES

NUMBER OF SEQUENCES: 29

CORRESPONDENCE ADDRESS:
ADDRESSEE: C/O FISH & NEAVE
STREET: 1251 AVenue of the Americas

CITY: New YORK
STATE: N.Y.
COUNTRY: USA
ZIP: 10020

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WO-TOS/MS-DOS
SOFTWARE: WO-TOS/MS-DOS
SOFTWARE: WO-TOS/MS-DOS
SOFTWARE: WO-TOS/MS-DOS
SOFTWARE: WO-TOS/MS-DOS
SOFTWARE: WO-TOS/MS-DOS
ATTORNEY/AGENT INFORMATION:
APPLICATION NUMBER: US/08/318,892
FILING DATE: 1-DEC-1994
CLASSIFICATION UNMBER: 30,709
REFERENCE/DOCKET NUMBER: SIM-8
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RESULT 3
US-09-169-077-1
; Sequence 1, Application US/09169077
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US-08-318-892B-3
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                                                                                                                                           Best Local Similarity
                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Ver:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/318,892B
FILING DATE: 1-DEC-1994
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Pierri, Margaret A
REGISTRATION NUMBER: 3709
REGISTRATION NUMBER: 3709
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (212) 596-90 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
                                                                                                                                                                                                TOPOLOGY: 11 MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION:
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MEDIUM TYPE: Floppy disk
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LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: single
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                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: sir
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Local Similarity 100.0%;
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                                                                                                  1 KOKIKHVVKLK 11
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Pred. No. 0.0071;
Mismatches 0;
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; OTHER INFORMATION: Synthetic
US-09-424-292-4
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Best Local Similarity !
Warches 11; Conservat
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                                                     Query Match
Best Local Similarity
Matches 11; Conserva
                                                                                                                                                                         SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 11
TYPE: PRT
ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/09/424,292
CURRENT FILING DATE: 2000-07-06
PRIOR APPLICATION NUMBER: PCT/CA98/00448
PRIOR FILING DATE: 1998-05-11
                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: CA 2,205,771
PRIOR FILING DATE: 1997-05-22
NUMBER OF SEQ ID NOS: 36
                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: Improved Delivery of Disease Modifiers FILE REFERENCE: 205375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: GB 9607441.4
FILING DATE: 10-APR-1996
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Turley, Eva A
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COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: single
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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1 KQKIKHVVKLK 11
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                                                                 Conservative
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                                                                               Score 54; DB 18;
Pred. No. 0.0071;
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                                                                 Mismatches
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                                                                                             Length 11;
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US-09-685-010-30
Sequence 30, Application US/09685010
GENERAL INFORMATION:
APPLICANT: Turley, Eva A.
APPLICANT: Cruz, Tony F.

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RESULT 7
US-09-424-292-7
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SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 30

LENGTH: 11
                                                                                                                 Sequence 7, Application US/09424292 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 30, Application US/09978309A GENERAL INFORMATION:
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APPLICANT: Turley, Eva A
TITLE OF INVENTION: Improved Delivery of Disease
FILE REFERENCE: 205375
CURRENT APPLICATION NUMBER: US/09/424,292
CURRENT FILING DATE: 2000-07-06
PRIOR APPLICATION NUMBER: PCT/CA98/00448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Turley, Eva A.

TITLE OF INVENTION: Compositions and Methods for Treating Cellular TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders TITLE OF INVENTION: Hyaladherin and Hyaluronans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR FILING DATE: 2000-04-03
PRIOR APPLICATION NUMBER: US 60/127,457
PRIOR FILING DATE: 1999-04-01
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SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/09/685,010 CURRENT FILING DATE: 2001-05-23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Cruz,
                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: Peptide composition that binds a hyalauronan
                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH:
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Pred. No. 0.0071;
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Best Local S
Matches 10
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LENGTH: 10
                                                     Best Local Similarity Matches 9; Conserv
                                                                                   Query Match
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PRIOR APPLICATION NUMBER: CA 2
PRIOR FILING DATE: 1997-05-22
NUMBER OF SEQ ID NOS: 36
                                                                                                                                                                                                      TELEFAX: (212) 596-909
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: Synthetic
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                                                                                                                                                                                                                                              NAME: Pierri, Margaret A
REGIEVEN NUMBER: 30709
REFERENCE/DOCKET NUMBER: SII
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9000
                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
APPLICATION NUMBER: US.
FILING DATE: 1-DEC-199
CLASSIFICATION: 536
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                                                                                                                               MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: New York
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CITY: 1
                                                                                                                                                                           TYPE:
                                                                                                                                             STRANDEDNESS:
TOPOLOGY: lin
                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE:
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100.0%;
                                                                     83.3%; Score 45;
100.0%; Pred. No.
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RESULT 9 US-09-685-010-60

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CURRENT APPLICATION NUMBER: US/09/978,309A
CURRENT FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: US 09/685,010
PRIOR FILING DATE: 2000-10-05
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR FILING DATE: 2000-04-03
PRIOR APPLICATION NUMBER: US 60/127,457
PRIOR APPLICATION NUMBER: US 60/127,457
PRIOR FILING DATE: 1999-04-01
NUMBER OF SEO ID NOS: 84
SOFTWARE: FASTSEQ for Windows Version 4.0
SEO ID NO 60
LENGTH: 9
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; ORGANISM: Homo sapien
US-09-685-010-60
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US-09-978-309A-60
                                                         Sequence 31, Application US/08318892B
GENERAL INFORMATION:
APPLICANT: TULLEY, EVA A
TITLE-OF INVENTION: HYALURONAN RECEPTOR (RHAMM = RECEPTOR FOR
TITLE OF INVENTION: HYALURONAN MEDIATED MOBILITY) AND HYALURONAN BINDING PEPTIDES
                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 9; Conserv
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CURRENT APPLICATION NUMBER: US/09/685,010
CURRENT FILING DATE: 2001-05-23
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FASTSEQ FOR WINDOWS Version 4.0
SEQ ID NO 60
LENGTH: 9
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APPLICANT: Turley, Eva A.
TITLE OF INVENTION: Compositions and Methods for Treating Cellular Response to
TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders Regulated by
TITLE OF INVENTION: Hyaladherin and Hyaluronans
FILE REFERENCE: 033352-010
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Homo sapien
CORRESPONDENCE ADDRESS:
ADDRESSME: c/o FISH & NEAVE
                                              NUMBER OF SEQUENCES:
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PRIOR APPLICATION NUMBER: PCT/CA98/00448
PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: C2,205,771
PRIOR FILING DATE: 1997-05-22
NUMBER OF SEO ID NOS: 36
SOFTWARE: PatentIn version 3.1
SEQ ID NO 8
LENGTH: 10
                                            Query Match
Best Local Similarity &
Whiches 8; Conservat
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                                                                                                                          ; OTHER INFORMATION: Synthetic US-09-424-292-8
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US-09-424-292-8
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                                                                                                                                                                                                                                                                                                                                Sequence 8, Application US/09424292
GENERAL INFORMATION:
APPLICANT: TUTLey, Eva A
TITLE OF INVENTION: Improved Delivery of Disease Modifiers
FILE REFERENCE: 205375
CURRENT APPLICATION NUMBER: US/09/424,292
CURRENT FILING DATE: 2000-07-06
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                                                                                                                                                                                        LENGTH: 10
TYPE: PRT
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                                                                                                                                                         ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
STRANDEDNESS: sinc
TOPOLOGY: linear
MOLECULE TYPE: pepti
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MEDIUM TYPE: F1Dpy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/318,892B
FILING DATE: 1-DEC-1994
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ATTORNEY/AGENT INFORMATION:
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1 KOKIEHVVEL 10
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80.0%;
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                                                                            Score 41; DB Pred. No. 1.5;
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                                                              Mismatches
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                                                            Gaps
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RESULT 13 US-09-424-292-11

Sequence 11, Application US/09424292 GENERAL INFORMATION:

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US-08-474-654-29
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; OTHER INFORMATION: Synthetic
US-09-424-292-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 29, Application US/08474654 GENERAL INFORMATION:
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn version 3.1 SEQ ID NO 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                  CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP Hei-6-268723
FILING DATE: 01-NOV-1994
INFORMATION FOR SEQ ID NO: 29:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/424,292
CURRENT FILING DATE: 2000-07-06
PRIOR APPLICATION NUMBER: PCT/CA98/00448
PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: CA 2,205,771
PRIOR APPLICATION NUMBER: CA 2,205,771
PRIOR FILING DATE: 1997-05-22
NUMBER OF SEQ ID NOS: 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: Improved Delivery of Disease Modifiers FILE REFERENCE: 205375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Turley, Eva A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                               FEATURE:
                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
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APPLICANT: Takahashi, Haruo
APPLICANT: Kobayashi, Yohei
APPLICANT: Hoshino, Masaharu
                                                                                                               HYPOTHETICAL:
                                                                                                                                    MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: NOVEL POLYPEPTIDE AND USE THEREOF NUMBER OF SEQUENCES: 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: 21
CITY: N.W.
STATE: Wasl
              LOCATION: 9
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                   TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/08/474,654 FILING DATE:
                                                                            NAME/KEY:
                                                                                                                                                           TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: U.S.A. ZIP: 20037-3202
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2100 Pennsylvania Avenue
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NO
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            /note= "The carboxyl terminus
carbamoyl group."
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US-08-474-654-39
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Search completed: February Job time: 133 secs
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Best Local Similarity
Thes 7; Conserve
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                                                                                                                                                                                                                                                   CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP Hei
FILING DATE: 01-NOV-1994
INFORMATION FOR SEQ ID NO: 39
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 39, Applicat GENERAL INFORMATION
                                                                                                                             Query Match
Best Local :
                                                                                                                 Matches
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APPLICANT:
APPLICANT:
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HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: NOVEL POLYPEPTIDE AND USE THEREOF NUMBER OF SEQUENCES: 41
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                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE:
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Kobayashi, Yohei
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77.8%;
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77.8%;
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              2003, 11:01:45
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                                                                                                              Score 31; DB 8;
Pred. No. 4.2e+06,
1; Mismatches
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Pred. No. 4.2e+06;
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GenCore version 5.1.3 Copyright (c) 1993 - 2003 Compugen Ltd.
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OM protein - protein search, using sw model

Run on: February 8, 2003, 10:58:17 : Search time 18 Seconds (without alignments) 49.548 Million cell updates/sec

Title: Perfect score: US-09-685-010-30

1 KQKIKHVVKLK 11

Scoring table: BLOSUM62 Gapop 10.0 , Gapext 0.5

Searched: 405691 seqs, 81078759 residues

Total number of hits satisfying chosen parameters: 123350

Minimum DB seq length: 0 Maximum DB seq length: 11

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

Pending\_Patents\_AA\_New:\*

1: /cgn2\_6/ptodata/2/paa/PCT\_NEW\_COMB.pep:\*

2: /cgn2\_6/ptodata/2/paa/US06\_NEW\_COMB.pep:\*

3: /cgn2\_6/ptodata/2/paa/US07\_NEW\_COMB.pep:\*

4: /cgn2\_6/ptodata/2/paa/US08\_NEW\_COMB.pep:\*

5: /cgn2\_6/ptodata/2/paa/US09\_NEW\_COMB.pep:\*

6: /cgn2\_6/ptodata/2/paa/US09\_NEW\_COMB.pep:\*

7: /cgn2\_6/ptodata/2/paa/US09\_NEW\_COMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	80	7	σ	ъ	4	ω	2	1	Result No.
23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	24	24	27	31	Score
		42.6	42.6	42.6	٠	٠	42.6	٠			42.6			42.6			•	٠	42.6	٠	42.6	44.4	44.4	50.0	57.4	Query Match 1
11	11	11	11	11	11	10	10	10	10	10	10	10	10	9	9	9	9	9	9	8	8	9	8	10	9	Length I
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28-	US-09-641-528-25628	US-09-641-528-25429	US-09-641-528-19346	US-09-641-528-9742	US-09-641-528-3545	US-09-641-528A-33057	US-09-641-528A-25627	US-09-641-528A-12718	US-09-641-528A-406	US-09-641-528-33057	US-09-641-528-25627	US-09-641-528-12718	US-09-641-528-406	US-09-641-528A-40827	US-09-641-528A-33056	US-09-641-528A-9809	US-09-641-528-40827	US-09-641-528-33056	US-09-641-528-9809	US-09-641-528A-19345	US-09-641-528-19345	-880-	US-10-189-437-69	US-10-083-259-11	US-10-133-210-263	ID
Sequence 30930, A	Sequence 25628, A	Sequence 25429, A		Sequence 9742, Ap		Sequence 33057, A		12718	Sequence 406, App		Sequence 25627, A	12718	Sequence 406, App	Sequence 40827, A	Sequence 33056, A	Sequence 9809, Ap	Sequence 40827, A	Sequence 33056, A	Sequence 9809, Ap	Sequence 19345, A	1934	Sequence 284, App	Sequence 69, Appl	e 11,	Sequence 263, App	Description

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US-09-641-528A-40879	US-09-641-528A-33147	US-09-641-528A-9824	US-09-641-528-40879	US-09-641-528-33147	US-09-641-528-9824	US-09-390-225B-28	US-09-641-528A-40663	US-09-641-528A-33058	US-09-641-528A-32779	US-09-641-528A-30930	US-09-641-528A-25628	US-09-641-528A-25429	US-09-641-528A-19346	US-09-641-528A-9742	US-09-641-528A-3545	US-09-641-528-40663	US-09-641-528-33058	US-09-641-528-32779
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
40879, A	33147, A	9824, Ap	40879, A	33147, A	9824, Ap	28, Appl	40663, A	33058, A	32779, A	30930, A	25628, A	25429, A	19346, A	9742, Ap	3545, Ap	40663, A	33058, A	32779, A

# ALIGNMENTS

RESULT 2  JOS-10-083-259-11  JOS-10-083-259-11  JOS-10-083-259-1  Sequence 11, Application US/10083259  GENERAL INFORMATION:  APPLICANT: Nielsen, Peter E.  APPLICANT: Givercman, Birgit Kjaeldgaard  APPLICANT: Hansen, Henrik Frydenlund  APPLICANT: Beck, Frederik  APPLICANT: Beck, Frederik  APPLICANT: Schou, Carsten  APPLICANT: Wissenbach, Margit  TITLE OF INVENTION: Modified Peptide Nucleic Acid (PNA) Molecules  FILE REFERENCE: PANT-0301  CURRENT APPLICATION NUMBER: US/10/083,259	; FEATURE: ; OTHER INFORMATION: Description of Artificial Sec US-10-133-210-263  Query Match Pest Local Similarity 62.5%; Pred. No. 3.3e+05; Matches 5; Conservative 2; Mismatches 1  Qy                     Db   1 KYKLKHIV 8	US-10-13-210-263  (Sequence 263, Application US/10133210  (GENERAL INFORMATION:  (GENERAL INFORMATION:  (APPLICANT: Belisi, Charles  (APPLICANT: Berzofsky, Jay  (APPLICANT: Gulukota, Kamalakar  (APPLICANT: Vaccaro, Dennis  (APPLICANT: Openis  (APPLICANT: Chao  (TITLE OF INVENTION: METHODS FOR DESIGNING MOLECULAR  (TITLE OF INVENTION: COMPOSITIONS THEREOF  (FILE REFERENCE: BU-035AX  (CURRENT APPLICATION NUMBER: US/10/133,210  (CURRENT FILING DATE: 2002-04-26  (NUMBER OF SED ID NOS: 281  (SOFTWARE: Patentin Ver. 2.0  (SEQ ID NO 263  LENGTH: 9  (TYPE: PRT  (TYPE: PTT  (TYP
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CURRENT FILING DATE:

2002-10-21

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RESULT 4
US-10-211-088-284
; Sequence 284, Application US/10211088
; GENERAL INFORMATION:
APPLICANT: Bright, Gary R.
APPLICANT: Chen, Yih-Tai
TITLE OF INVENTION: Novel Fusion Proteins And Assays For Molecular Binding
FILE REFERENCE: 01-1022-US
CURRENT APPLICATION NUMBER: US/10/211,088
; CURRENT FILING DATE: 2002-10-15
PRIOR APPLICATION NUMBER: 60/309,395
PRIOR FILING DATE: 2001-08-01
; PRIOR FILING DATE: 2001-08-01
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; ORGANISM: Homo sapiens US-10-189-437-69
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APPLICANT: BOGOCH, SAMUEL
APPLICANT: BOGOCH, ELENO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 09/689,155
PRIOR FILING DATE: 2000-10-12
NUMBER OF SEQ ID NOS: 160
SOFTWARE: Patentin version 3.1
SEQ ID NO 11
                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
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Best Local :
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TITLE OF INVENTION: REPLIKIN PEPTIDES AND ANTIBODIES THEREFORE
FILE REFERENCE: 09425/46905
CURRENT APPLICATION NUMBER: US/10/189,437
CURRENT FILING DATE: 2002-07-08
CURRENT FILING DATE: 2002-07-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: 60/278,761 PRIOR FILING DATE: 2001-03-27 NUMBER OF SEQ ID NOS: 729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 10/105,232
PRIOR FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: 09/984,057
PRIOR FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR FILING DATE: 2001-07-09
                 PRIOR APPLICATION NUMBER: 60/341,589 PRIOR FILING DATE: 2001-12-13
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TYPE: PRT
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TYPE: PRT
NUMBER OF
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SEQ ID NOS: 366
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RESULT 6
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CURRENT FILING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR FILING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FBStSEQ for Windows Version 4.0
SEQ ID NO 19345
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                                                                                                     APPLICANT: Celis, Esteban
APPLICANT: Grey, Howard
TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES
TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COM
FILE REFERENCE: 2060.0100001
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APPLICANT:
                                                                       CURRENT APPLICATION NUMBER: US/09/641,528A CURRENT FILING DATE: 2000-08-15
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                                 PRIOR APPLICATION NUMBER: US 60/172,705 PRIOR FILING DATE: 1999-12-10
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SOFTWARE:
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                  NUMBER OF SEQ ID NOS: 51504
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Pred. No. 3.3e+05;
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CURRENT FILING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR FILING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 9809
LENGTH: 9
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NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 33056
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                                                  TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS FILE REFERENCE: 2060.010001
CURRENT APPLICATION NUMBER: US/09/641,528
CURRENT FILLING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR EILING DATE: 1999-12-10
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ORGANISM: Artificial Sequence
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Pred. No. 3.3e+05;
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Matches 4
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PRIOR FILING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 40827
SEQ ID NO 9809
LENGTH: 9
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APPLICANT:
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                              CURRENT APPLICATION NUMBER: US/09/641,528A
CURRENT FILING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR FILING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                      APPLICANT: Grey, Howard
TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS
TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
FILE REFERENCE: 2060.0100001
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TYPE: PRT
ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence
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nes 4; Conservative
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nes 4; Conserv
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                                                                                                                                                                                                                   Celis,
                                                                                                                                                                                                                                         Chesnut, Robert
                                                                                                                                                                                                                                                          Southwood, Scott
                                                                                                                                                                                                                                                                             Sidney, John
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                                                                                                                                                                                                                   Esteban
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        42.68;
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Pred. No. 3.
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US-09-641-528A-40827

: Sequence 40827, Application US/09641528A

: GENERAL INFORMATION
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US-09-641-528A-33056
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                                                                                                                                                                                                       APPLICANT: Sette, Alessandro
APPLICANT: Sidney, John
APPLICANT: Southwood, Scott
APPLICANT: Chesnut, Robert
APPLICANT: Celis, Esteban
APPLICANT: Grey, Howard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS FILE REFERENCE: 2060.0100001
CURRENT APPLICATION NUMBER: US/09/641,528A
CURRENT FILING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR FILING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 3056
NUMBER OF SEQ ID NOS: 51504
SOFTWARE:\PastSEQ for Windows Version 4.0
SEQ ID NO 40827
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Best Local Similarity
                                                              TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS FILE REFERENCE: 2060.0100001

CURRENT APPLICATION NUMBER: US/09/641,528A

CURRENT FILING DATE: 2000-08-15

PRIOR APPLICATION NUMBER: US 60/172,705

PRIOR FILING DATE: 1999-12-10
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TYPE: PRT
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Celis, Esteban
Grey, Howard
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Southwood, Scott
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44.48;
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Pred. No. 3.3e+05;
3; Mismatches 2;
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Pred. No. 3.3e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human Papillomavirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 9;
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US-09-641-528-12718
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-641-528-406
                                                       NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 12718
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Celis, Esteban
APPLICANT: Grey, Howard
TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS
TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
FILE REFERENCE: 2060.0100001
CURRENT APPLICATION NUMBER: US/09/641,528
CURRENT FILING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR FILING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 51504
SOFTMARE: FastSEQ for Windows Version 4.0
SEQ ID NO 406
LENGTH: 10
TYPE: PRT
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Best Local Similarity
Matches 4; Conserv
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APPLICANT:
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Best Local (
                                                                                                                                              TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS FILE REFERENCE: 2060.0100001

CURRENT APPLICATION NUMBER: US/09/641,528

CURRENT FILING DATE: 2000-08-15
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                                                                                                             PRIOR APPLICATION NUMBER: US 60/172,705 PRIOR FILING DATE: 1999-12-10
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                   LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
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4; Conservative
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Chesnut, Robert
Celis, Esteban
Grey, Howard
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             42.68;
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Pred. No. 1.7e+02
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RESULT 15

Sequence 25627, Application US/09641528

GENERAL INFORMATION:
APPLICANT: Sette, Alessandro
APPLICANT: Sette, John
APPLICANT: Southwood, Scott
APPLICANT: Southwood, Scott
APPLICANT: Chesnut, Robert
INPURITION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
FILE REFERENCE: 2060,010001
CURRENT APPLICATION NUMBER: US/09/641,528
CURRENT APPLICATION NUMBER: US/09/641,528
CURRENT FILING DATE: 12000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR FILING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 25627
LENGTH: 10
                                                                                                                                                                                                                                                  ; TYPE: PRT; ORGANISM: Artificial Sequence; FEATURE: OTHER INFORMATION: Peptide Derived from Human Papillomavirus US-09-641-528-25627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; FEATURE, ( ) . OTHER INFORMATION: Peptide Derived from Human Papillomavirus US-09-641-528-12718
Search completed: February 8, 2003, 11:02:10 Job time : 19 secs
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                                                                                                                                                                  Query Match 42.6
Best Local Similarity 44.4
Matches 4; Conservative
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Best Local Similarity 44.4%;
Matches 4; Conservative
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1 QVLHVLKRK 9
                                                                                  1 QVLHVLKRK 9
                                                                                                                           3 KIKHVVKLK 11
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Pred. No. 1.7e+02;
3; Mismatches 2; Indels
                                                                                                                                                                  Score 23; DB 5; Length 10; Pred. No. 1.7e+02; 3; Mismatches 2; Indels
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                                                                                                          OM protein - protein search, using sw model
February 8, 2003, 10:57:16; Search time 14 Seconds (without alignments) 23.118 Million cell updates/sec
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Copyright (c) 1993 - 2003 Compugen Ltd.
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Title:
Perfect score:
Sequence: 1 KQKIKHVVKLK 11 US-09-685-010-30 54

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

Searched:

262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters:

83753

Minimum DB seq length: 0 Maximum DB seq length: 11

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued\_Patents\_AA:\*

1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep:\*
2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep:\*
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep:\*
4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep:\*
5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:\*
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

,	200	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	80	7	6	5	4	ω	2	_	Result No.
7	200	20	20	20	20	20	20	20	20	21	21	21	21	22	22	22	22	22	22	23	23	23	23	23	24	25	Score
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sequence iss, App	16	4	Sequence 5, Appli	Sequence 11, Appl	8, 2	11, 1	122,	11,	11,	<u>ა</u>	4	Sequence 3, Appli	6, A	151,	151,	16,	e 16,	e 65,	34,	Sequence 94, Appl	94,	e 95,	e 1, Ap	139	Sequence 5, Appli	Sequence 47, Appl	Description

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20 37.0 8 2 US-08-663-647-19 20 37.0 8 2 US-09-016-366a-36 20 37.0 8 4 US-09-288-061-2 20 37.0 8 4 US-09-288-061-2 20 37.0 8 4 US-09-288-061-2 20 37.0 8 5 PCT-US95-09262-138 20 37.0 9 2 US-08-621-803-161 20 37.0 9 2 US-08-621-803-195 20 37.0 9 2 US-08-621-259A-127 20 37.0 9 2 US-08-621-259A-128 20 37.0 9 4 US-09-217-352-161 20 37.0 9 4 US-09-217-352-161 20 37.0 9 4 US-09-217-352-161 20 37.0 9 4 US-09-217-352-162 20 37.0 9 5 PCT-US95-09262-128 20 37.0 10 2 US-08-621-803-156 20 37.0 10 2 US-08-621-803-156 20 37.0 10 2 US-08-621-803-156 20 37.0 10 2 US-08-621-803-153	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	82
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# ALIGNMENTS

vative 2; Mismatches 0; Indels 0;	Query Match 46.3%; Score 25; DB 4; Length 8; Best Local Similarity 66.7%; Pred. No. 2e+05;	; TOPOLOGY: linear ; MOLECULE TYPE: peptide US-08-477-928A-47	amino acio DNESS: s	; INFORMATION FOR SEQ ID NO: 4/: ; SEQUENCE CHARACTERISTICS: ; LENGTH: 8 amino acids	; TELEPHONE: (202) 639 7700 ; TELEPAX: (202) 639 7890	; REFERENCE/DOCKET NUMBER: 19060-0105 ; TELECOMMUNICATION INFORMATION:	; NAME: Remenick, James ; REGISTRATION NUMBER: 36902	; CLASSIFICATION: 536 ; ATTORNEY/AGENT INFORMATION:	CURRENT APPLICATION DATA:	SYSTEM: PC-DOS/MS-DOS	PE: Flop	20004-2400	Ω.	T: 1299 Pennsy	DENCE ADDRESS	TITLE OF INVENTION: HELHOUS FOR CONTROLLING I TITLE OF INVENTION: LYMPHOCYTE MEDIATED IMMUNE RESPONSES NUMBER OF SEQUENCES: 49	INFORMATION: ANT: DOSCh, Hans M. OF INVENTION: METHODS TOO CONTROLLING	; Sequence 47, Application US/08477928A ; Patent No. 6207389	RESULT 1 US-08-477-928A-47
Gaps																			

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RESULT 3
US-07-861-458C-139
Sequence 139, Application US/07861458C
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SEQ ID NO 5
LENGTH: 10
TYPE: PRT
ORGANISM: HIV-1 matrix protein
US-09-019-346A-5
                                            US-07-861-458C-139
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Query Match_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION UNDERS: USON and Delivery Vehicle CURRENT APPLICATION NUMBER: US/09/019,346A
CURRENT FILING DATE: 1998-02-05
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Paten***-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 5, Application US/09019346A Patent No. 6372720 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Patent No. 6232061
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Longmuir, Kenneth J.
APPLICANT: Waring, Alan J.
APPLICANT: Haynes, Sherry M.
TITLE OF INVENTION: Liposome Fu.
FILE REFERENCE: A65189/RFT/DAV
                                                                                                                              TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                              NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 04:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/861,458C
FILLING DATE: 04/01/92
                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 50Z or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 142
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson
STREET: 225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Marchionni, Mark Andrew APPLICANT: Johnson, Carl D. TITLE OF INVENTION: HOMOLOGY CLONING
                                                                              LENGTH:
TYPE: a
                                                            TOPOLOGY:
                                                                                                                                                                                                                                                                                       FILING DATE:
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Pred. No. 1.8e+02;
        Score 23;
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US-08-193-521-1
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Best Local (
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Matches 4; Conservative
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APPLICANT: Maloy, W.
APPLICANT: Kari, U. I
APPLICANT: Williams,
                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                 FILING DATE: 13-SEP-1991
ATTORNEY/AGENT INFORMATION:
NAME: Olstein, Elliot M.
REGISTRATION NUMBER: 24,
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM: MEDIUM TYPE: 3.5 inc
                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION: TELEPHONE: 201-994-1700 TELEFAX: 201-994-1744
                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 514
PRIOR APPLICATION NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                         FEATURE:
                                                                                                                                                                                     MOLECULE TYPE: peptide
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                                                                                                                                                                                                    STRANDEDNESS:
TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 07/7 FILING DATE: 13-SEP-1991
                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Roseland
STATE: New Jersey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
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2 KKLKKLLKL 10
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                                                                      Similarity
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                                                         Conservative
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Kari, U. Prasad
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                                                                     42.68;
44.48;
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                                                       Score 23; DB 1; Length 11; Pred. No. 2.9e+02; 4; Mismatches 1; Indels
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RESULT 5 US-08-434-120-95 ; Sequence 95, Application US/08434120

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                                                                                                                                                                                          Sequence 94, Application US/08465325 Patent No. 5686563
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                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Jacob, Leonard S. APPLICANT: Maloy, W. Lee TITLE OF INVENTION: Treatment TITLE OF INVENTION: Malignanci TITLE OF INVENTION: Biological NUMBER OF SEQUENCES: 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Olstein, Elliot M.
REGISTRATION NUMBER: 24,025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch diskette
COMPUTER: IBM PS/2
                                                                   TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                   APPLICANT: Magainin Pharmaceuticals Inc. APPLICANT: 5110 Campus Drive APPLICANT: Plymouth Meeting, PA 19462
                                                      CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEPHONE: 201-994-1700
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PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION DATA:
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nes 4; Conserv
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TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/226,108 FILING DATE: APPLICATION NUMBER: US/07/937,462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM: PC-DOS
SOFTWARE: DW4.V2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Roseland
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET:
                  ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & ADDRESSEE: Dunner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH:
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 1300 I.
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                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               201-994-1744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Carella, Byrne, Bain, Gilfillan, Cecchi & Stewart
Street, N.W. Suite 700
                                                                                                                                                                                                                                                                                                                                                                                 42.68;
44.48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Biologically Active Peptides
                                                                                     N-Terminal Substitutions
                                                                                                     Biologically Active Peptides Having
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Treatment of Gynecological
                                                                      153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      us/08/297,950
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                                                                                                                                                                                                                                                                                                                                                             Score 23; DB 1; Le
Pred. No. 2.9e+02;
4; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                 Length 11;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; MOLECULE TYPE: US-08-465-325-94
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Matches
                                                                                                                                                                                                                                                                                                                                                                                                         Patent No. 6348445
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 94,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (202) 408-4400 INFORMATION FOR SEQ ID NO: 94: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 32,984
REGISTRATION NUMBER: 32,984
REFERENCE/DOCKET NUMBER: 05
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 08, FILING DATE: 18-JAN-94 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Patentin Rel
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 01-JUN-92
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 07
FILING DATE: 01-JUN-92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
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                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: Biologically Active Peptides With Reduced
Toxicity in Animals and a Method for Preparing Same
PRIOR
                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: U.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity 4; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     f: 11 amino acids amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Fordis, Jean B
            APPLICATION NUMBER: US/09/115,737 FILING DATE: 15-Jul-1998 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                    CITY: Washington STATE: D.C.
                                                                                                                                                                                                                                     STREET: 1300 I Street, N.W. Suite
                                                                                                                                                                  COUNTRY: USA
ZIP: 20005-3315
                                                                                                                                                                                                                                                                    ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
APPLICATION DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                           Application US/09115737
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IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
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Michael McLane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07/891,201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08/184,462
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Pred. No. 2.9e+02;
4; Mismatches 1
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                                                                                 Version #1.3
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APPLICANT: O'Brien, Timothy J.

APPLICANT: Tanimoto, Hirotoshi

TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease

TITLE OF INVENTION: Overexpressed in Carcinomas

FILE REFERENCE: D6064CIP/D

CURRENT APPLICATION NUMBER: US/09/644,600

CURRENT ELLING DATE: 2000-08-23

PRIOR APPLICATION NUMBER: 09/421,213

PRIOR APPLICATION NUMBER: 09/421,213

PRIOR FILING DATE: 1999-10-20

PRIOR FILING DATE: 1999-10-20

PRIOR FILING DATE: 1998-02-20

NUMBER OF SEQ ID NOS: 98

SEQ ID NO 34
                                US-09-644-600-65
US-09-644-600-65
; Sequence 65, Applicat:
; Patent N 6451500
; CENERAL INFORMATION:
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MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO:
US-09-115-737-94
                                                                                                                                                                                                                                                                                                        ; OTHER INFORMATION: Residues 119-127 of the TADG-15 protein US-09-644-600-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 8
US-09-644-600-34
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Best Local Similarity
Matches 4; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 34, Application US/09644600 Patent No. 6451500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
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APPLICANT: "Janimoto, Hirotoshi
                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                         FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: (202) 408-4000
TELEFAX: (202) 408-4400
INFORMATION FOR SEQ ID NO: 94:
                                                                                                                                                                                                                                                                                                                                                                                              LENGTH:
                                                                                                                                                               1 KVKDALKL 8
                                                                                                                                                                                              3 KIKHVVKL 10
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REGISTRATION NUMBER: 32,984
REFERENCE/DOCKET NUMBER: 05387.0021-06000
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 07/891,201 FILING DATE: 01-JUN-92 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
STRANDEDNESS: single
                                                                       Application US/09644600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 08/465,330 FILING DATE: 05-JUN-1995 APPLICATION NUMBER: 08/184,462 FILING DATE: 18-JAN-94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 11 amino acids
                                                                                                                                                                                                                                 Conservative
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                                                                                                                                                                                                                                             Score 22; DB 4;
Pred No. 2e+05;
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Pred. No. 2
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; FEATURE:
; OTHER INFORMATION:
US-08-097-830E-16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Residues 119-127 of the TADG-15 protein US-09-644-600-65
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PRIOR FILING DATE: 1999-10-20
PRIOR APPLICATION NUMBER: 09/027,337
PRIOR FILING DATE: 1998-02-20
NUMBER OF SEQ ID NOS: 98
SEQ ID NO 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 16, Application US/08097830E
Patent No. 5652211
GENERAL INFORMATION:
APPLICANT: Porro, Massimo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                          TELEPHONE: (212) 302-899
TELEPAX: (212) 302-8998
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease TITLE OF INVENTION: Overexpressed in Carcinomas FILE REFERENCE: D6064CIP/D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/09/644,600 CURRENT FILING DATE: 2000-08-23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                         CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH:
                                                                                                                                                                    REGISTRATION NUMBER: 25,669
REFERENCE/DOCKET NUMBER: 57.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 302-8989
                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: Word Perfect CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: Peptides For Neutralizing The TITLE OF INVENTION: Toxicity of Lipid A NUMBER OF SEQUENCES: 35
                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Disl
COMPUTER: IBM PS,
OPERATING SYSTEM:
                                                    TOPOLOGY: circular
                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE:
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Local Similarity 50.0%;
les 4; Conservation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STREET: 1185 A
CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 KVKDALKL 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3 KIKHVVKL 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New York
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USA
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35 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Diskette,
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                  sulfide bond between Cys and Cys
                                                                                                                                                                                                                                                                                                                                                                                           US/08/097,830E
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Pred. No. 2e+05;
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Query Match Best Local Similarity

40.7%;

Score 22; DB 1; Pred. No. 3.9e+02;

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Query Match
Best Local Similarity
****hes 5; Conserv?
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US-08-465-325-151
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US-08-456-112B-16
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                                                                                                                                                                                            Sequence 151, Application US/08465325
                                                                                                                                                           Patent No. 5686563
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (212) 302-89
INFORMATION FOR SEQ ID NO:
                                             APPLICANT: Magainin Pharmaceuticals Inc.
APPLICANT: 5110 Campus Drive
APPLICANT: Plymouth Meeting, PA 19462
TITLE OF INVENTION: Biologically Active Peptides Having
TITLE OF INVENTION: N-Terminal Substitutions
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION: TELEPHONE: (212) 302-8989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Costigan, James V.
REGISTRATION NUMBER: 25,669
REFERENCE/DOCKET NUMBER: 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08 FILING DATE: May 31, 1995 CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: DOS
SOFTWARE: Word Perfect 5.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: New York
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE: Hedman, Gibson & Costigan STREET: 1185 Avenue of the Americas
 STREET:
               ADDRESSEE:
                                 ADDRESSEE:
                                                                                                                                                                                                                                                                           1 KLKCKLKLK 9
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o. 5834430
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                Dunner
                              Finnegan, Henderson, Farabow, Garrett &
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I. Street, N.W. Suite 700
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                                                                                                                                                                                                                                                                                                                                   Score 22; DB 2; Pred. No. 3.9e+02; Score 2;
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Matches
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APPLICATION NUMBER: 01
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07
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LENGTH: 11 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: FOIGLS, Jean B
REGISTAN NUMBER: 32,984
REFERENCE/DOCKET NUMBER: 05
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 01-JUN-92
ATTORNEY/AGENT INFORMATION:
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COUNTRY:
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OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                       ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                             COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.3
CURRENT APPLICATION DATA:
             APPLICATION NUMBER: US/09/115,737
FILING DATE: 15-Jul-1998
CLASSIFICATION: -CUNKNOWN5
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
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                                                                                                                                                                                                        CITY: Washington STATE: D.C.
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                                                                                                                                                                                                                                         STREET: 1300 I Street, N.W. Suite 700
APPLICATION NUMBER: 08/465,330
                                                                                                                                                                                          COUNTRY: USA
                                                                                                                                                                                                                                                                        ADDRESSEE: Finnegan, Henderson, Farabow,
                                                                                                                                                                                                                                                                                                                                                                                                                                 Application US/09115737
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                                                                                                                                                                                                                                                                                                                     Biologically Active Peptides With Reduced Toxicity in Animals and a Method for Preparing Same
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Pred. No.
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; SEQUENCE TYPE: peptide ; SEQUENCE DESCRIPTION: SEQ ID NO: 151: US-09-115-737-151
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US-07-924-054-6
                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOCTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/924,054
FILING DATE: 1920903
CLASSIFICATION: 435
ATTORNEY/ACENT INFORMATION:
NAME: RESNICK, David S
REGISTRATION NUMBER: 34235
REGISTRATION NUMBER: 34235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
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                                                                                                               REFERENCE/DOCKET NUMBER: 40
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)523-3400
TELEFAX: (617)523-6440
TELEX: 200291 STRE UR
INFORMATION FOR SEQ ID NO: 6:
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NAME: FORGLS, Jean B
REGISTRATION NUMBER: 32,984
REFERENCE/DOCKET NUMBER: 05387.0021-06000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4400
TELEPHONE: (202) 408-4400
INFORMATION FOR SEQ ID NO: 151:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: SUZUKI, NO. 5486472uhiro
APPLICANT: KITADA, Chieko
APPLICANT: TSUDA, Masao
TITLE OF INVENTION: ANTIBODY TO PACAP AND USE THEREOF
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: DAVID G. CONLIN; DIKE, BRONSTEIN, ROBERTS&
ADDRESSEE: CUSHMAN
-924-054.5
                   MOLECULE TYPE:
                                                                                               SEQUENCE CHARACTERISTICS:
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ZIP: 02109
                                         TOPOLOGY:
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TYPE: amino acid
STRANDEDNESS: single
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APPLICATION NUMBER: 08/184,462
FILING DATE: 18-JAN-94
APPLICATION NUMBER: 07/891,201
FILING DATE: 01-JUN-92
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                                                                       8 amino acids
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. 4.3e+02;
-hes 2;
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                                                                                                                                                                              TELEPHONE: (213) 489-16
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
                                                       Matches
                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent No. 6344436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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Best Local Similarity
Matches 3; Conserv
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                                                                                                                        STRANDEDNESS:
TOPOLOGY: lin
MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C.
SOFTWARE: WOTO Perfect 6.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Dis
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Hauer, Jochen APPLICANT: Mims, Martha P.
                                              38.98;
Local Similarity 55.68;
es 5; Conservation
                                                                                                                                                                 TYPE: amino acids
                                                                                                                                                                                                                                                                                 NAME: Warburg, Richard J. REGISTRATION NUMBER: 32,327 REFERENCE/DOCKET NUMBER: 21
                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: January 8, CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/08/584,043A FILING DATE: January 8, 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: 633 West Fifth Street STREET: Suite 4700 CITY: Los Angeles
                                                                                                                                                                                                                                                                                                                                           FILING DATE
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1 KKKKKKKVTK
                        1 KQKIKHVVK 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Smith, Louis C.
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                                                                   Score 21; DB 4;
Pred. No. 2e+05;
                                                                                                                                                                                                                                                                                 217/189
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Pred. No.
                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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2e+05;
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                                                                                Length 9;
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Search completed: February Job time : 15 secs

8,

2003, 10:59:26

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 8, 2003, 11:02:17; Search time 14 Seconds (without alignments) 68.667 Million cell updates/sec

Title: Perfect score: Sequence: US-09-685-010-31 46 1 KLKSQLVKRK 10

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters:

1100

Minimum DB seq length: 0 Maximum DB seq length: 10

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR\_73:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	v	4.	w	2	μ.	No.	Result
12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	15	15	15	16	Score	
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PC7076	S78762	S13333	I64832	PS0254	S57274	S02617	T14910	PX0060	S71948	C39111	S09387	D37397	S10920	A60108	PL0162	S55548	148126	A37765	S11024	PQ0784	S28055	S15850	A60957	YFPG	C54226	A42089	I54379	I40870		
spectrin alpha cha	ribosomal protein	alpha/beta-gliadin	Ca2+-transporting	18K protein 5507 -	triacylglycerol li	alcohol dehydrogen	hypothetical prote	lysosome-associate	matrix metalloprot	Ig heavy chain C r		hypothetical prote	venom protein HR-3	1	paramyosin - north	mcrB protein - Esc	=		hydrogensulfite re	NADH2 dehydrogenas	cytochrome b559 co		š	thymic factor - pi	ğ	끍.	gene NF2 protein -	phospholipase C (E	iption	

45	44	43	42	41	40	39	38	37	36	ω 5	34	ω ω	32	31	30
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PC2197	S13889	B24362	S30494	S45651	PN0043	LFSAME	A38671	S19630	B33932	JH0784	A61419	S70721	S13224	S27178	I52974
zymogen granule me	phosphoenolpyruvat	chloramphenicol O-	cat gene leader pe	probable Na+-trans	phosphatidylethano	probable msrA lead	peptidylglycine mo	ribosomal protein	Ig mu chain D regi	neuropeptide TE-6	sarcosine dehydrog	heat shock protein	virG protein - Agr	neurokinin A-relat	seminal vesicle pr

## ALIGNMENTS

RESULT 2 154379 gene NF2 protein - human (fragment) C;Species: Homo sapiens (man) C;Decies: Homo sapiens (man) C;Decies: Homo sapiens (man) C;Decies: Homo sapiens (man) C;Date: 01-Nov-1996 #sequence_revision 01-Nov-1996 #text_change 21-Ju1-2000 C;Accession: I54379 R;Arai, E; Ikeuchi, T; Nakamura, Y. Hum. Mol. Genet. 3, 937-939, 1994 A;Title: Characterization of the translocation breakpoint on chromosome 22q12.2 in a patil A;Accession: I54379 A;Reference number: I54379; MUID:95038750; PMID:7951241 A;Accession: I54379 A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: DNA A;Residues: preliminary; translated from GB/EMBL/DDBJ A;Cross-references: GB:S75841; NID:9861532; PIDN:AAD14190.1; PID:94261890 C;Genetics: A;Gene: GDB:NF2 A;Cross-references: GDB:120232; OMIM:101000 A;Map position: 22q12.2-22q12.2 Query Match Best Local Similarity 75.0%; Pred. No. 2.8e+05; Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;	RESULT 1 140870 phospholipase C (EC 3.1.4.3) - Clostridium perfringens (fragment) C;Species: Clostridium perfringens C;Species: 16-Aug-1996 #sequence_revision 16-Aug-1996 #text_change 21-Jul-2000 C;Accession: 140870 R;Toyonaga, T.; Matsushita, O.; Katayama, S.; Minami, J.; Okabe, A. Microbiol. Immunol. 36, 603-613, 1992 A;Title: Role of the upstream region containing an intrinsic DNA curvature in the negative A; Reference number: 140870; MUJD:92396045; PMID:1522810 A;Accession: 140870 A;Statuu: preliminary; translated from GB/EMBL/DDBJ A,Molecule type: DNA A;Residues: 1-4 <res> A;Cross-references: EMBL:X62825; NID:940622; PIDN:CAA44636.1; PID:94377417 C;Genetics: A;Gene: plc C;Keywords: phosphoric diester hydrolase Query Match Best Local Similarity 75.0%; Pred. No. 2.8e+05; Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0; MIRK 10 UNIXX 4</res>
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N;Alternate names: FTS (facteur thymique serique)
C;Species: Sus scrofa domestics (domestic pig)
C;Date: 13-Jul-1981 #sequence_revision 13-Jul-1981 #text_change 07-May-1999
C;Accession: A01523; A60983
R;Pleau, J.M.; Dardenne, M.; Blouquit, Y.; Bach, J.F.
J. Biol. Chem. 252, 8045-8047, 1977
A;Title: Structural study of circulating thymic factor: a peptide isolated in A;Reference number: A01523; MUID:78026571; PMID:914862
A;Accession: A01523
                                                                                                                                                                                              N; Alternate names:
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R;Korfeld, C.A.; Yeates, T.O.; Thornber, J.P.

Biochemistry 33, 2178-2184, 1994

A;Title: Purification and characterization of the peripheral antenna A;Reference number: A54226; MUID:94162224; PMID:8117874

A;Accession: C54226
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C;Species: Chromatium purpuratum
C;Date: 05-Jan-1996 #sequence_revision 05-Jan-1996 #text_change 05-Jan-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Reference number: A42089;
A; Accession: A42089
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C;Species: Drosophila melanogaster
C;Datc: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 20-Mar-1998
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      A; Molecute
A; Residués
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Cross-references: GB:S82271; NID:g245517; PID:g245518
A;Note: sequence extracted from NCBI backbone (NCBIN:82267,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Title: Twin of I-POU:
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Keywords: antenna complex; light-harvesting polypeptide
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    type: protein
                                                                                                                                                                                                                                                                                                                                                                                        l Similarity
3; Conserv
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3; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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50.0%;
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J. 7.6e+03;
O;
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  A; Gene: CYP27
C; Superfamily:
C; Keywords: he
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Superfamily: unassigned cytochrome P450; cytochrome P450 homology; Keywords: heme; mitochondrion; monooxygenase; oxidoreductase; tra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best
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C; Accession: $15850
C; Accession: $15850
R; Bergman, T.; Postlind, H.
Biochem. J. 276, 427-432, 1991
A; Title: Characterization of mitochondrial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Nolecule type: protein
A; Molecule type: protein
A; Residues: 1-9 < ERN>
C; Comment: This peptide induces DNA synthesis in immature thymocytes, but not peripheral in a variety of immunoassays.
C; Comment: This peptide was isolated in two forms. One form contained the pyrrolidone can C; Comment: This peptide was isolated in two forms. One form contained the pyrrolidone can the contains a large, non-peptide blocking group with a high
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 r form (thymocyte growth peptide) contains a large, non-g(Superfamily: thymic factor C; Superfamily: thymic factor C; Keywords: blocked amino end; pyroglutamic acid F;1/Modified site: pyrrolidone carboxylic acid (Glx) (in F;1/Modified site: blocked amino end (Glx) (in thymocyte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     R;Ernstroem, U.; Gafvelin, G.; Rudja, J.M.
Biosci. Rep. 10, 403-412, 1990
A;Title: Purification thymocyte growth peptide (TGP)
A;Reference number: A60957; MUID:91064427; PMID:2249004
A;Accession: A60957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              thymocyte growth peptide sheep
N;Contains: FTS (facteur thymique seriq
C;Species: Ovis orientalis aries, Ovis
C;Date: 31-Dec-1993 #sequence_revision
C;Accession: A60957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Molecule type: protein
A;Residues: 'Z',2-4,'Z',6-9 <BAC>
C;Comment: This peptide induces DNA synthesis in
in a variety of immunoassays.
C;Comment: See PIR:A60957 (sheep) for discussion
C;Superfamily: thymic factor
C;Keywords: pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (G
A; Molecule type:
A; Residues: 1-9 •
C; Genetics:
                                                                                                                                                                                           vitamin D3 26-monooxygenase (EC 1.14.14.-) cytochrome P450 27-
N;Alternate names: cytochrome P450(26); vitamin D3 26-hydroxyla:
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 23-Apr.1993 #sequence_revision 23-Apr-1993 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R;Bach, J.F.; Dardenne, M.; Pleau, J.M.; Rosa, J. Nature 266, 55-57, 197.
A;Title: Blochemical characterisation of a serum thymic A;Reference number: A60983; MUID:77123829; PMID:300146 A;Accession: A60983
                                                               A;Reference number: S15850;
A;Accession: S15850
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3; Conserv
                      : protein
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Pred. No.
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31-Dec-1993
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10. 2.8e+05;
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0. 2.8e+05;
0;
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                                                                                      Cytochromes
PMID: 2049072
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RESULT 10
S11024
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 G;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_ch C;Accession: S28055 R;Kuntz, M; Camara, B; Well, J.H.; Schantz, R. Plant Mol. Biol. 20, 1185-1188, 1992 A;Title: The psbL gene from bell pepper (Capsicum annuum): A;Reference number: S28055; MUID:93099270; PMID:1463853 A;Accession: S28055
hydrogensulfite reductase (EC 1.8.99.3) N;Alternate names: bisulfite reductase;
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                                                                                                                                      S
                                                                                                                                                                                                                                                                                                               A;Molecule type: protein
A;Residues: 1-10 <LET>
C;Comment: Complex I, mitochondrial NADH-ubiquiquinone reductase,
ranging from 5K to 75K.
                                                                                                                                                                                                                                                                                                                                                                                      A; Reference number: A; Accession: PQ0784
                                                                                                                                                                                                                                                                                                                                                                                                    A; Title: Purification and p: A; Reference number: PQ0775;
                                                                                                                                                                                                                                                                                                                                                                                                                                     R; Leterme, S.; Plant Physiol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Gene: psbF
A;Genome: chloroplast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cytochrome b559 component psbF - pepper chloroplast (fragment)
C;Species: chloroplast Capsicum annuum (pepper)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_chang
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Best Local S
Matches 3
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Best Local
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on and preliminary characterization of mitochondrial complex I (NADH PQ0775; MUID:94151437; PMID:8108509
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photosynthesis;
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Pred. No. 2.8e
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Pred. No. 1.2e
2; Mismatches
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Pred. No. 1.2e+04;
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chain 1 - Desulfovibrio thermophilus (fragment)
desulfofuscidin
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2.8e+05;
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A;Molecule type: DNA
A;Residues: 1-6 <RES>
A;Cross-references: GB:
C;Genetics:
A;Introns: 3/3
                                                                                                                                                                                                                                                                                        alpha-tubulin - Chinese hamster (fragment)
(;Species: Cricetulus griscus (Chinese hamster)
C;Date: 04-Sep-1997 #sequence_revision 07-Nov-1997 #text_change
C;Accession: I48126
R;Elliott, E.M.; Sarangi, F.; Henderson, G.; Ling, V.
Can. J. Biochem. Cell Biol. 63, 511-518, 1985
A;Title: Cloning of 11 alpha-tubulin gene sequences from the gen
A;Reference number: I48126; MUID:86001952; PMID:2931165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C;Species: Desulfovibrio thermophilus
C;Date: 19-Mar-1997 #sequence_revision 30-Jan-1998 #text_change 30-Jan-1998
C;Accession: S11024
R;Fauque, G.; Lino, A.R.; Czechowski, M.; Kang, L.; DerVartanian, D.V.; Moura, J.J.G.; Le Biochim. Biophys. Acta 1040, 112-118, 1990
A;Title: Purification and characterization of bisulfite reductase (desulfofuscidin) from A;Reference number: S11024; MUID:9035276; PMID:2165817
A;Accession: S11024
A;Molecule type: protein
A;Residues: 1-6 <FRU>C;Keywords: oxidoreductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      R;Theroux, S.J.; Redlinger, T.B.; Fuller, R.C.; Robinson, S.J. J. Bacteriol. 172, 4497-4504, 1990
J. Bacteriol. 172, 4497-4504, 1990
A;Title: Gene encoding the 5.7-kilodalton chlorosome protein of A;Reference number: A37765; MUID:90330558; PMID:2376566
A;Accession: A37765
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: DNA
A; Residues: 1-6 <THE>
A; Cross-references: G
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                                                                                                                                                                                                                                                         A;Status: preliminary; translated from GB/EMBL/DDBJ
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Pred. No. 2.8e+05
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Pred. No. 2.
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exotoxin A - Streptococcus pyogenes (strain C203.S) (fragment)
N/Alternate names: blastogen A; scarlet fever toxin
C;Species: Streptococcus pyogenes
C;Date: 10-Nov-1992 #sequence_revision 10-Nov-1992 #text_change 07-Feb-1997
C;Accession: A60108
R;Schllevert, P.M.; Gray, E.D.
Infect. Immun. 57, 1865-1867, 1989
A;Title: Group A streptococcal pyrogenic exotoxin (scarlet fever toxin) type A and blast A;Reference number: A60108; MUID:89254013; PMID:2498210
A;Accession: A60108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Molecule type: protein
A;Residues: 1-8 <MAT>
A;Residues: 1-8 <MAT>
A;Residues: 1-8 <MAT>
A;Residues: 1-8 <MAT>
A;Residues: 1-8 <MAT>
A;Residues: 1-8 <MAT>
A;Residues: 1-8 <MAT>
A;Residues: 1-8 <MAT>
A;Residues: 1-8 <math display="1">
A;Resperimental source: white adductor muscle
A;Note: the sequence is the phosphorylated tryptic peptide
C;Comment: This protein is thought to exist as a dimer of two subunits, termed alpha-par
C;Comment: This protein is thought to exist as a dimer of two subunits, termed alpha-par
C;Comment: This protein is thought to exist as a dimer of two subunits, termed alpha-par
C;Comment: This protein is thought to exist as a dimer of two subunits, termed alpha-par
C;Comment: This protein is thought to exist as a dimer of two subunits, termed alpha-par
C;Comment: This protein is thought to exist as a dimer of two subunits, termed alpha-par
C;Comment: This protein is thought to exist as a dimer of two subunits, termed alpha-par
C;Comment: This protein is thought to exist as a dimer of two subunits, termed alpha-par
C;Comment: This protein is thought to exist as a dimer of two subunits, termed alpha-par
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A;Title: Phosphorylation of paramyosin.
A;Reference number: PL0162; MUID:90107385; PMID:2532591
A;Accession: PL0162
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C;Species: Mercenaria mercenaria (northern quahog)
C;Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 11-May-2000
C;Accession: PL0162
Best
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F;5/Binding site: phosphate (Ser) (covalent) #status experimental
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EMBO J. 14, 2661-2669, 1995
A,Title: MCTB: a prokaryotic protein specifically recognizing DNA containing modified A,Reference number: S55548; MUID:95300799; PMID:7781618
A,ACCESSION: S55548
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Species: Escherichia coli
Date: 10-Oct-1995 #sequence_revision 10-Nov-1995 #text_change 07-May-1999
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Keywords: exotoxin
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Q46464 campylobact P31929 homo sapien P56923 rana tempor P82661 panagrellus P01255 sus scrofa Q03367 capsicum an p40751 urechis uni P31889 ascaris suu Q05564 klebsiella G8936 serratia ma P29135 rana ridibu P23211 staphylococ P3684 staphylococ P3684 staphylococ P3684 staphylococ P3684 staphylococ P3687 staphylococ P3688 pinus musculu P81081 mus musculu P81081 mus maculu P81081 mus maculu P30091 homo sapien P81298 haemonchus P31896 carnobacter P80709 carcinus ma P81886 porphyromon P33564 mycobacteri P80709 carcinus obe Q9prz1 oncorhynchu P80332 oncorhynchu P80312 acholeplasm P38007 chlamydia t P25154 oryctolagus P41875 panagrellus P80630 zea mays (m P25423 melolontha P14595 tabanus atr
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RESULT 2 ULAD\_HUMAN ID ULAD\_HUMAN

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P56923;
30-MAY-2000
16-OCT-2001
16-OCT-2001
                                                                                                                                              Amphibian skin; Antibiotic; Amidation; Multigene family MOD_RES 10 10 AMIDATION. SEQUENCE 10 AA; 1123 MW; 390549B337272457 CRC64:
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Tissot J.-D., Bairoch A., Appel R.D., Hochstrasser
"Human liver protein map: update 1993.";
Electrophoresis 14:1216-1222(1993).
-!- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI PROTEIN IS: 6, ITS MW IS: 15 kDa.
SWISC-2DPAGE, P31929; HUMAN.
                                                                                                                                                                                                                                                                                                                                                  Rana temporaria (European common frog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea;
                                                                                                                                                                                                                                                 "Temporins, a
temporaria.";
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01-JUL-1993 (Rel. 26, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Unknown protein from 2D-page of liver tissue
Homo sapiens (Human)
                                                                                                                                                                                                                                                                        Barra D.
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
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CTION: HAS ANTIBACTERIAL ACTIVITY AGAINST GRAM-POSITIVE
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Pred. No. 3e+03;
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Pred. No. 1.1e+05;
                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
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                                                                                                                                                                                                                                                                                 Miele R., Mangoni M.L.,
                                                                                                                                                                                                                                                                                                                                                                                                update)
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                                                                                                                       DB 1;
                                                                                                                                                                                                                                                            the European
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                                                                                                                       Length 10;
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r D.F.;
                                                                                                  Indels
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Ranidae; Rana
                                                                                                                                                                                                                                                            red
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                                                                                                                                                                                                                                                            frog
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                                                                                                                                                                                                                                                                                                                                                      Rana.
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RESULT
PSBF_CA
ID PS
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DT 01
DT 01
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Best Local Similarity
Marches 2; Conserve
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                                                                                                                              Matches
                                                                                                                                                 Query Match
                                                                                                                                                                             from pig serum. II. Amino acid sequence.";

J. Biol. Chem. 252:8045-8047(1977).

-i- MISCELLANBOUS: THE BIOLOGICAL SOURCE(S) AND PHYSIOLOGICAL ACTIVITIES OF THIS PEPTIDE HAVE NOT BEEN DETERMINED PIR; A01523; YFPG.
                                                                                                                                                                                                                                                                                                                                          THYF PIG

P01255;

21-JUL-1986 (Re

21-JUL-1986 (Re

21-JUL-1986 (Re

21-JUL-1986 (Re
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FAR5 PANRE
P82661;
16-OCT-2001
16-OCT-2001
                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                       SEQUENCE
                                                                                                                                                                                                                                                                                                                                 Sus scrofa (Pig)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Neuropeptide; Amidation.
MOD_RES 9 9
SEQUENCE 9 AA; 1077 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       peptides (FaRPs) from fi
Submitted (JUL-2000) to
-!- FUNCTION: MYOACTIVE
                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                 NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Maule A.G.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE, FUNCTION, AND A MOSE C.L., Marks N.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Panagrolaimoidea; Panagrolaimidae; Panagrellus
NCBI_TaxID=6233;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Isolation, characterization and pharmacology of FMRFamide-related peptides (FaRPs) from free-living nematode, Panagrellus redivivus."; Submitted (JUL-2000) to the SWISS-PROT data bank.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FMRFamide-like neuropeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -!- SIMILARITY: BELONGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Panagrellus redivivus
                                                                                                                                       Local
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                                                                                                                             Similarity
3; Conserv
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(Rel. 40, Last sequence update)
(Rel. 40, Last annotation update)
ike neuropeptide PF5 (AMRNALVRF-amide)
                                                                                                                             30.4%;
llarity 100.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                      (Rel. 01, Created)
(Rel. 01, Last sequence update)
(Rel. 01, Last annotation update)
                                                                                                                                                                     AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                 STANDARD;
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                                                                                                                                                                       876 MW;
                                                                                                                                                                                                                                                                                                             Chordata; Craniata; Vertebrata; Euteleostomi; Cetartiodactyla; Suina; Suidae; Sus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AND AMIDATION.
N.J., Halton D.W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30.4%;
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                                                                                                                                                                      PYRROLIDONE CARBOXYLIC D500B87866C5B33D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Score 14; DB; Pred. No. 1.1e
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A0D112C72DD45406
                                                                                                                                        Score 14;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRT;
                                                                                                                              Mismatches
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hes 0;
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                                                                                                                                                 Length
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                                                                                                                              Indels
                                                                                                                                                                                                                                               peptide isolated
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- CAPAN PSBF CAPAN Q03367; 01-JUN-1994 01-JUN-1994

STANDARD;

PRT;

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(Rel. 29, Created)
(Rel. 29, Last sequence update)

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Best Local S
Matches 2
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MEDLINE=93099270; PubMed=1463853;
Kuntz M., Camara B., Weil J.-H., Schantz R.;
Kuntz M., Camara B., Weil J.-H., Schantz R.;
"The psbL gene from bell pepper (capsicum annuum): plastid RNA
editing also occurs in non-photosynthetic chromoplasts.";
Plant Mol. Biol. 20:1185-1188(1992).
-!- FUNCTION: THIS B-TYPE CYTOCHROME IS TIGHTLY ASSOCIATED WITH THE
REACTION CENTER OF PHOTOSYSTEM II AND POSSIBLY IS PART OF THE
WATER-OXIDATION COMPLEX.
                                                                                                                                                                                                                                                                                                       TKU1_UREUN P40751;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a between the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and fentities requires a license agreement (See http://www.isb-sibor send an email to license@isb-sib.ch).
                                                                                                             MEDLINE=93236558; PubMed=8476410;
Ikeda T., Minakata H., Nomoto K., Kubota I., Mu
"Two novel tachykinin-related neuropeptides in
                                                                                                                                                                                                                                Urechistachykinin I. Urechis unicinctus.
                                                                                                                                                                                                                                                          01-FEB-1995 (Rel. 31, Created)
01-FEB-1995 (Rel. 31, Last sequence upon 101-NOV-1995 (Rel. 32, Last annotation
                                                                                                                                                                                                                                                                                                                                    UREUN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro; IPR001417; Cyt_b559.
PROSITE; PS00537; CYTOCHROME_B559;
Chloroplast; Photosystem II; Heme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Asteridae; euasterids I; Solanales; Solanaceae; Capsicum.
                Tachykinin; Neuropeptide; Amidation.
MOD_RES 10 10 AMIDATI
                                                     Biochem. Biophys. Res. Commun. 19
-!- FUNCTION: CONTRACTILE ACTION
MUSCLE OF THE ANIMAL.
                                                                                                                                                                                                                   Eukaryota; Metazoa; Echiura; Xenopneusta; Urechidae; Urechis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-JUN-1994 (Rel. 29, Last annotation update)
Cytochrome B559 beta chain (Fragment).
  SEQUENCE
                                                                                                  Urechis unicinctus.";
                                                                                                                                                           TISSUE=Ventral
                                                                                                                                                                         SEQUENCE, AND SYNTHESIS
                                                                                                                                                                                                  NCBI_TaxID=6432;
                                                                                                                                                                                                                                                                                           01-FEB-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; X65570; CAA46539.1; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=4072;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chloroplast
                                         -!- SIMILARITY: SOME SIMILARITY TO TACHYKININS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FRANSMEM
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les 2; Conserv
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  A
A
                                                                                                                                                           nerve cord;
                                                                                                                                                                                                                                                                                                                    STANDARD;
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  1177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1180 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               30.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       pepper)
  MW.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14; DB 1;
Pred. No. 4.8e+0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BY SIMILARITY.
817D0F59D6D69DC5
  C6D1C462C9D6C5A6 CRC64;
                                                                      192:1-6(1993).
ON ON THE INNER CIRCULAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PARTIAL
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                                                                                                                                                                                                                                                             update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4.8e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      transport;
                                                                                                                             Muneoka Y
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; Indels
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                                                                                                                 the
                                                                                                                 echiuroid worm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  restrictions
                                                                       BODY-WAL
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RESULT
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                                                                                                                                                                                                                                                                          RESULT 9
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Best Local S
Matches 1
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Best Local Similarity
Matches 3; Conser
SEQUENCE FROM N.A.

STRAIN=1033-5P14 / KAY2026;

MEDLINE=93211295; PubMed=8459773;

Bachelller S., Perrin D., Hofnung M., Gilson E.;

"Bacterial interspersed mosaic elements (BIMEs) are present in the genome of Klebsiella.";

MOI. Microbiol. 7:537-544 (1993).

-i- FUNCTION: MALE IS INVOLVED IN THE HIGH-AFFINITY MALTOSE MEMBRAN TRANSPORT SYSTEM. INITIAL RECEPTOR FOR THE ACTIVE TRANSPORT OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-JUL-1993 (Rel. 26, Created)
01-JUL-1993 (Rel. 26, Last sequence update)
01-FBB-1996 (Rel. 33, Last annotation update)
FMRFamide-like neuropeptide AF1
Ascaris suum (Pig roundworm) (Ascaris lumbricoides)
                                                                                                                                                                                                                                                  MALE
                                                                                                                                                                                                                                                                KLEPN
                                                                                                                                                                                                                                                                                                                                                                                                       Neuropeptide; Amidation.
MOD_RES 7 7
SEQUENCE 7 AA; 953 MW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ASCSU
                                                                                                                                           Bacteria;
                                                                                                                                                                                          Maltose-binding
                                                                                                                                                                                                    30-MAY-2000
                                                                                                                                                                                                                          Q05564;
01-OCT-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                          CELLS.

-I- TISSUE SPECIFICITY: FOUND IN THE NERVE CORDS AND A VARIETY OF GANGLIA PARTICULARLY IN THE ANTERIOR REGIONS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Neuron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=90180465; PubMed=2627377; Cowden C., Stretton A.O.W., Davis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Nematoda; Chromadorea; Ascaridida; Ascaridoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FAR1
                                                                                                                  NCBI_TaxID=573;
                                                                                                                                Klebsiella.
                                                                                                                                                        Klebsiella
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ascaris suum."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "AF1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ascarididae; Ascaris.
                                                                                                                                                                              (MMBP)
                                                                                                                                                                                                                                                                                                           3 KSQLVK 8 | :: :: 1 KNEFIR 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FUNCTION: POTENT MODULATOR OF INHIBITORY MOTORNEURONS. INPUT RESISTANCE AND BLOCKS SLOW OSCILLATORY POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                     SIMILARITY: BELONGS TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OSOFV 7
                                                                                                                                                                                                                                                 KLEPN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TaxID=6253;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ASCSU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a sequenced bioactive neuropeptide isolated from the nematode
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2:1465-1473 (1989)
                                                                                                                                                                           (Fragment).
                                                                                                                                                                                                                                                                                                                                                         Similarity
1; Conserv
                                                                                                                                           Proteobacteria;
                                                                                                                                                                                                                                                                                                                                                                                                       7 AA; 953 MW;
                                                                                                                                                     pneumoniae
                                                                                                                                                                                      (Rel. 30, Created)
(Rel. 30, Last sequence update)
(Rel. 39, Last annotation update)
ding periplasmic protein (Maltodextrin-binding protein)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                   STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STANDARD;
                                                                                                                                                                                                                                                                                                                                                                    28.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30.4%;
                                                                                                                                           gamma
                                                                                                                                                                                                                                                                                                                                                                                                        AMIDATION.
69D40059CB144350
                                                                                                                                                                                                                                                                                                                                                                                                                                                      THE FARP (FMRFAMIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Davis R.E.;
                                                                                                                                                                                                                                                                                                                                                         Score 13; DB
Pred. No. 1.1e
4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score
Pred.
                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
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                                                                                                                                           subdivision;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     No.
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4.8e+03;
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                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   $
                                                                                                                                                                                                                                                                                                                                                                                                         CRC64;
                                                                                                                                           Enterobacteriaceae,
                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                      RELATED
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                                                                                                                                                  EMBL; AF058451; AAC14294.1; -.
InterPro; IPR001848; Ribosomal S10.
PROSITE; PS00361; RIBOSOMAL_S10; PA
                                                                                                                                                                                                                                    This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                              Noorani S.M., Lindahl L., Zengel J.M.;
Noorani S.M., Lindahl L., Zengel J.M.;
Submitted (APR-1998) to the EMBL/GenBank/DDBJ databases.
-I- FUNCTION: Involved in the binding of tRNA to the ribosomes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation—the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; X68329; CAA48406.1; -.
InterPro; IPR000567; SBP_bac_1.
PROSITE; PS01037; SBP_BACTERIAL_1; PARTIAL.
                                                                                                                                                                                                           entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-MAY-2000
15-JUN-2002
                                                                                                                                      Ribosomal protein.
                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bacteria; Proteobacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Serratia marcescens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Transport; Sugar transport; PerTplasmic.
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SIMILARITY: BELONGS TO THE S10P FAMILY OF RIBOSOMAL PROTEINS.
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MONORIR 7
                                                                    Similarity
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1214 MW;
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33.3%;
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RESULT 11
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P29135;
01-DEC-1992
01-DEC-1992
16-OCT-2001
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P23211;
01-NOV-1991 (Rel. 20, Created)
01-NOV-1991 (Rel. 20, Last sequence update)
01-MAR.1992 (Rel. 21, Last annotation updat
                   between the Swiss Institute of Bioinformatics and the EMBL outst
the European Bioinformatics Institute. There are no restrictions
use by non-profit institutions as long as its content is in
modified and this statement is not removed. Usage by and for con
                                                                                                                                                                                                         "Inducible erythromycin resistance in staphylococci is encoded member of the ATP-binding transport super-gene family."; mol. Microbiol. 4:1207-1214(1990).
                                                                                                                                                                                                                                                                                                   MEDLINE=91041730;
Ross J.I., Eady E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Probable msrA leader peptide. Staphylococcus epidermidis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tachykinin; Neuropeptide; Amidation; Amphibian skin. MOD RES 10 10 AMIDATION. SEQUENCE 10 AA; 1160 MW; 526B407059D5BAA7 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PIR; S27178; S27178.
InterPro; IPR002040; Tachykinin
PROSITE; PS00267; TACHYKININ; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wang Y., Bad
Burcher E.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; (
Amphibia; Batrachia;
NCBI_TaxID=8406;
                                                                                                             This SWISS-PROT entry is copyright.
                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bacteria;
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Eukaryota, Metazoa, Chordata, Craniata
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Neurokinin A.
                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=1282;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  related peptide from frog gut."; Biochem. J. 287:827-832(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Primary structure and receptor-binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=93075037; PubMed=1332683;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Them. J. 287:827-832(1992).

FUNCTION: TACHYKININS ARE ACTIVE PEPTIDES WHICH EXCIPEVOKE BEHAVIORAL RESPONSES, ARE POTENT VASODILATORS I
                                                                                                                                                                                   FUNCTION: MAY REGULATE EXPRESSION OF THE
                                                                                                                                                                PROTEIN.
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                                                                                                                                                                                                                                                                                                                                                                            FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                              Firmicutes;
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24, Last seq
40, Last ann
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.A., Cove J.H., Cunliffe
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75.0%;
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Chordata; Craniata; Vertebrata;
Anura; Neobatrachia; Ranoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Bacillales;
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Pred. No. 1.2e
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Ranidae; Rana
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                                             This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation—the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                           SPECIES=S.agalactiae; PLASMID=pIP501;
MEDLINE=93096867; PubMed=1461942;
Trieu-Cuot P., de Cespedes G., Horaud T.;
"Nucleotide sequence of the chloramphenicol resistance
"Nucleotide sequence of the chloramphenicol resistance
the streptococcal plasmid pIP501.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Brueckner R., Matzura H.; "Regulation of the inducible chloramphenicol acetyltransferase of the Staphylococcus aureus plasmid pUB112.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JUN-1994
01-OCT-1994
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SPECIES=S.aureus; PLASMID=pUB112;
MEDLINE=86081739; PubMed=3865770;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Nucleotide sequence and structural relationships of a chloramphenicol acetyltransferase encoded by the plasmid pSCS6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SPECIES=S.aureus; PLASMID=pSCS6; MEDLINE=92388047; PubMed=1517170;
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MEDLINE=92027652; PubMed=1929326;
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Leader peptic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            or send an email to license@isb-sib.ch).
     EMBL; M58515; AAA26612.1;
                                                                                                                                                                                                                                                                Plasmid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBO J. 4:2295-2300(1985).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Staphylococcus aureus."
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2; Conser
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(Rel. 29, Last sequence up
(Rel. 30, Last annotation
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l; Mismatches
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Best Local S
Matches 2
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Best Local :
                                                                               activase) (RA) (Water stress responsive protein 4) (Pinus pinaster (Maritime pine).

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Spermatophyta; Coniferopsida; Coniferales; Pinaceae; NCBI TaxID=71647;
                                                                                                                     PB1084;
15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
16-JUL-1998 (Rel. 40, Last annotation update)
16-OCT-2001 (Rel. 40, Last annotation update)
Probable ribulose bisphosphate carboxylase/oxygenase activase
Probable vibulose bisphosphate carboxylase/oxygenase activase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P99031;
15-DEC-1998
15-DEC-1998
15-DEC-1998
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15-DEC-1998 (Rel. 37, Last annotation update)
Unknown protein from 2D-page of liver tissue
(Fragment).
TISSUE=Needle;
MEDLINE=984.18576; PubMed=9747804;
Costa P., Bahrman N., Frigerio J.-M.,
"Water-deficit-responsive proteins in
Plant Mol. Biol. 38:587-596(1998).
[2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PIR; B24362; B24362.

Leader peptide; Antibiotic resistance; Plasmi

SECUENCE 9 AA; 1074 MW; 5D9CAB5AAB05B333
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EMBL; X02872; CAA26630.1; -.
EMBL; X60827; CAA43217.1; -.
EMBL; X65462; CAA46454.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                             Hoogland C., Appel R.D., Cowthorne M.;
                                                                                                                                                                                               RCA
                                                                                                                                                                                                                                                                                                                                     SEQUENCE
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Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mus musculus (Mouse)
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                                                               SEQUENCE
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Rodentia;
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Binz P.-A., I
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Pred.
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Pred. No.
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Sciurognathi;
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                      Kremer A., maritime p
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thi; Muridae; Murinae; Mus
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Pinus.
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RP SEQUENCE.

RC TISSUB-Neededle;
RX MEDLINE-99274088; PubMed=10344291;
RA COSta P., Pionneau C., Bauw G., Dubos C., Bahrman N., Kremer A.,
RA Frigerio J.-M., Plomion C.;
RA Frigerio J.-M., Plomion C.;
RT Proteins.";
RI Electrophoresis 20:1098-1108(1999).
RI Electrophoresis 20:1098-1108(1999).
CC -!- FUNCTION: ACTIVATION OF RUBISCO (RIBULOSE-1,5-BISPHOSPHATE C. CARBOXYLASE/OXYGENASE; EC 4.1.1.39) INVOLVES THE ATP-DEPENDENT C. CARBOXYLATION OF THE EPSILON-ANINO GROUP OF LYSINE LEADING TO A CC CARBOXYLATION OF THE EPSILON-ANINO GROUP OF LYSINE LEADING TO A CC CARBOXYLATION OF THE EPSILON-ANINO GROUP OF LYSINE LEADING TO A CC -!- SUBCELLULAR LOCATION: Chloroplast stroma (By similarity).
CC -!- SUBCELLULAR LOCATION: Chloroplast stroma (By similarity).
CC -!- SUBCELLULAR TO-DAMS TO THE RUBISCO ACTIVASE FAMILY.
CC -!- SUBLIARITY; BELONGS TO THE RUBISCO ACTIVASE FAMILY.
CC -!- SUBLIARITY; BELONGS TO THE RUBISCO ACTIVASE FAMILY.
CC -!- SUBLIARITY; BELONGS TO THE RUBISCO ACTIVASE FAMILY.
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CC -!- SUBLIARITY; BELONGS TO THE RUBISCO ACTIVASE FAMILY.
CC -!- SUBLIARITY; BELONGS TO THE RUBISCO ACTIVAS
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GenCore version 5.1.3 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 8, 2003, 11:01:52; Search time 28 Seconds (without alignments) 73.588 Million cell updates/sec

Title: Perfect score: Sequence: US-09-685-010-31 46 1 KLKSQLVKRK 10

Scoring table:

Searched: 671580 seqs, 206047115 residues BLOSUM62 Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 1224

Minimum DB seq length: 0 Maximum DB seq length: 10

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database : SPTREMBL\_21:\*

SPTREMBL\_21:\*

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10: Sp\_p)

11: Sp\_r

12: Sp\_r

13: Sp\_r

14: Sp
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sp\_bacteria:\*
sp\_fungi:\*
sp\_human:\* sp\_invertebrate:\*
sp\_mammal:\*
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sp\_lant:\*
sp\_rodent:\*
sp\_virus:\*
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sp\_unclassified:\*
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sp\_archeap:\*

sp\_organelle:\*
sp\_phage:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

16	15	14	13	12	11	10	9	8	7	6	U	4	ω	N	_	Result No.
15	15	15	15	15	15	15	16	16	16	16	16	16	17	17	18	Score
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071067	OYUTED	Q16276	Q84271	Q47273	Q56429	Q9ZEZ9	P87488	Q83977	Q9YIQ9	Q9YIR0	Q9YVE3	Q15897	Q94II9	078226	Q84273	ij
071067 canine dist	Q9tuy0 monodelphis	Q16276 homo sapien	Q84271 human papil	Q47273 escherichia	Q56429 thermus the	Q9zez9 buchnera ap	P87488 oncorhynchu	Q83977 influenzavi	Q9yiq9 human adeno	Q9yir0 human adeno	Q9yve3 human adeno	Q15897 homo sapien	Q94ii9 zea mays (m	078226 mus musculu	Q84273 human papil	Description

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17
12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	15	15
26.1				•	•	•			•	•	•		•	28.3	•	•		•	•	•	•		30.4	•	30.4	•	32.6	
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P92430	P92214	P92226	P92390	P92427	P92387	P92425	P92403	P92372	Q38217	Q9H121	Q9HDS1	Q9S3J6	Q9UWM5	Q95GN1	8SSW8Q	Q9UE26	Q15891	QSUT83	Q9PRU1	P82136	Q47651	Q9JNC9	Q9ZIB1	078225	Q34909	P72279	Q9F5W1	071068
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aegilops	amblyopyrum	crithopsis	heteranthe	peridictyon	henrardia	pseudoroe	Lophopyrum	haynaldia	actococcus	homo sapier	aspergillu	scherichi	ulfolobus	pelargonium	anthocidar	homo sapie	homo sapien	human immun	cynops pyrr	spinacia o	escherichia	treptococ	lostridium	mus musculu	locusta mig	rhodococcus	vibrio chol	canine dist

## ALIGNMENTS

DALIOR	ь 6	\$3912555555555555555555555555555555555555
RESULT 2 078226 ID 078226 PRELIMINARY, PRT, 9 AA. AC 078226; DT 01-NOV-1998 (TrEMBLrel. 08, Created)	Query Match 39.1%; Score 18; DB 12; 1 Best Local Similarity 75.0%; Pred. No. 6.7e+05; Matches 3; Conservative 1; Mismatches 0; Qy 7 VKRK 10 :	RESULT 1  084273 ID 084273; AC 084273; AC 084273; DT 01-NOV-1996 (TEMBLrel. 01, Created) DT 01-NOV-1996 (TEMBLrel. 01, Last sequence update) DT 01-NOV-1996 (TEMBLrel. 08, Last annotation update) DT 01-NOV-1996 (TEMBLrel. 08, Last annotation update) DT 01-NOV-1996 (TEMBLrel. 08, Last annotation update) DT 01-NOV-1996 (TEMBLrel.) OS Last annotation update) CV viruses; dsDNA viruses, no RNA stage; Papillomaviridae; OC Viruses; dsDNA viruses, no RNA stage; Papillomaviridae; OX NCBITAXID=10609; RN [1]  CX NCBITAXID=10609; RN [1]  RR SEQUENCE FROM N.A. RX MEDLINE=88089511; PubMed=2826651; RX MEDLINE=88089511; PubMed=2826651; RX MEDLINE=88089511; DubMed=2826651; RX MEDLINE=88
y	18; DB 12; No. 6.7e+05 smatches	PRT; 8 AA.  aated) st sequence update) st annotation update) stage; Papillomaviridae; stage; Papillomaviridae;  chow L., Broker T.R., Iftner T., Chow L., Broker Tern, Iftner T., papillomaviruses associated wi patients with epidermodysplasia papilomaviruses associated wi
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D Q15897

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C Q15897;
O1-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 02, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE (clone XP6A11A) (Fragment).
OS Homo gapiens (Human).
OS Homo gapiens (Human).
OC Mamm. Maj Eutheria; Primates; Catarrhini; Hominidae
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STRAIN=CRO437; TISSUE=KIDNEY;
MEDLINE=88084418; PubMed=3692165;
Golubic M., Budimir O., Schoepfer R.
Figueroa F., Klein J.;
"Nucleotide sequence analysis of cla
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Q94II9;
01-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                            Zea mays (Maizē).
Zea mays (Maizē).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACC clade;
Panicoldeae; Andropogoneae; Zea.
                                                                                                                                                                                                                                                                             NON TER
SEQUENCE
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Submitted (APR-2001) to the ENEMBL; AY029766; AAK61356.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                       01.DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Anthocyanin regulator R-sc protein (Fragment).
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EMBL; L38590; AAA57294.1; -.
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Mammalia; Eutheria; Rodentia;
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2; Mismatches
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Pred. No. 9.5e
2; Mismatches
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                                  Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                    post-transcriptionally by
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Sciurognathi; Muridae; Murinae; Mus
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Q9YIR0;
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01-MAY-1999 (TEMBLrel. 10,
01-OCT-2001 (TEMBLrel. 18,
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NON TER 1 1
SEQUENCE 7 AA; 980 MW; '
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SEQUENCE
Human adenovirus type 7. Viruses; dsDNA viruses,
                          PVI core
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Submitted (DEC-2000)
                                                                                                                                                                                                                                                                            MEDLINE=99175282; PubMed=10074533;
Crawford-Miksza L.K., Nang R.N., Schnurr I
"Strain variation in adenovirus serotypes
                                                                                                                                                                                                                                                                                                                                          Human adenovirus type 7
Viruses; dsDNA viruses,
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01-DEC-2001
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Coolbaugh M.I., Chinault C.A.,
Caskey C.T.H.;
                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                            respiratory disease.
J. Clin. Microbiol.
                                                                                                                                                                                                                                                                                                         STRAIN-GOMEN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Isolation of chromosome-specific genes by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE-PLACENTA;
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RNA stage; Adenoviridae; Mastadenovirus.
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annotation update)
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dini A., Lindsay
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6.7e+05;
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Q83977;
01-NOV-1996
01-NOV-1996
01-MAR-2002
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Q9YIQ9;
01-MAY-1999
01-MAY-1999
01-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; AFO
NON TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRAIN=2-G 95-873, RI-67, AND 55142;
Crawford-Mikeza L.K., Nang R.N., Schnurr D.P.;
"Molecular surveillance of strain variation in adenoviruses acute respiratory disease, AV 4 and AV 7a.";
Submitted (MAY-1998) to the EMBL/GenBank/DDBJ databases.
EMBL; AP065064; AAD03659.1; -.
EMBL; AP065062; AAD03659.1; -.
EMBL; AP065063; AAD03656.1; -.
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Crawford-Miksza L.K., Nang R.N., Schmurr D.D.;
"Molecular surveillance of strain variation in adenoviru
acute respiratory disease, AV 4 and AV 7a.";
Submitted (MAY-1998) to the EMBL/GenBank/DDBJ databases.
EMBL; AF065068; AAD03668.1; -.
EMBL; AF065066; AAD03664.1; -.
EMBL; AF065067; AAD03666.1; -.
                                                                                        Viruses; ssRNA negative-strand Influenza A viruses.
                                                                                                                                                                             01-NOV-1996 (TrEMBLrel. 01, 01-NOV-1996 (TrEMBLrel. 01, 01-MAR-2002 (TrEMBLrel. 20, 11fluenza A/udorn/72 (H3n2)
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SEQUENCE FROM N.A.
MEDLINE=83112211; PubMed=6296449;
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                                                                                                                                   Influenzavirus
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01-MAY-1999 (TrEMBLrel. 10, Lr
Growth hormone 2 (Fragment).
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"the influenza virus nucleoprotein
"fmian virus 40 vector is detected
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01-MAY-1999 (TrEMBLrel. 10,
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2-isopropylmalate synthase
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MEDLINE=94173893; PubMed=8127856;

MOTORE S.H., Knudsen K.L., North T.W., Allendorf F.W.;

"One of two growth hormone genes in coho salmon is sex-linked.";

Proc. Natl. Acad. Sci. U.S.A. 91:1628-1631(1994).
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Bukaryota; Metazoa; Chordata; Craniata;
Actinopterygii; Neopterygii; Teleostei;
Protacanthopterygii; Salmoniformes; Salm
                                                                             Buchnera aphidicola.
Plasmid pBRc1.
Bacteria; Proteobacteria;
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J. Virol. 45:434-438(1983).
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  MEDLINE=99028904; PubMed=9812361;
                     SEQUENCE FROM N.A.
                                                     NCBI_TaxID=9;
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U04930; AAD13472.1; -.
U04931; AAD13476.1; -.
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Mahdi A.A., Sharples G.J., Mandal T.N., I
"Hôlliday Junction Resolvases encoded by
Escherichia coli K-12 and Phage 32.";
J. Mol. Hiol. 257:561-573(1996).
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                                                                                                                                                                                           SEQUENCE FROM N.A.
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Aphididae.";
FEMS Microbiol. Lett. 168
EMBL; AJ006874; CAA07290.
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MEDLINE=95038750; PubMed=7951241;
Arai E., Ikeuchi T., Nakamura Y.;
"Characterization of the transloc
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SEQUENCE 8 AA; 987 MW;
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MEDLINE=88089511; PubMed=2826651;
MEDLINE * Kraus J., Delius H., Chow
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                                                             "Characterization of the translocation breakpoint on chromosome 22q12.2 in a patient with neurofibromatosis type 2 (NF2)."; Hum. Mol. Genet. 3:937-939(1994).
                                                                                                                                          Eukaryota; Metazoa;
Mammalia; Eutheria;
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Viruses; dsDNA viruses, no
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Q9TUY0;
Q1-MAY-2000 (TrEMBLrel. 13, Last sequence update)
Q1-MAY-2000 (TrEMBLrel. 19, Last annotation update)
Q1-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Acetyl-CoA acetyltransferase 2 (Fragment).
ACAT2.
ACAT2.
Monodelphis domestica (Short-tailed grey opossum).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Metatheria; Didelphimorphia; Didelphidae; Monodelphis.
NCBI TaxID=13616;
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MEDLINE=99282512; PubMed=10353914;

MEDLINE=99282512; PubMed=10353914;

Shintani S., O'hUigin C., Toyosawa S., Michalova V., Klein J.;

"Origin of gene overlap. The case of tcpl and acat2.";

"Cenetice 152:743-754(1999).

EMBL; AF143498; AAD34974:1; -.
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908470 seqs, 133250620 residues
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seq length: 0
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Total number of hits satisfying chosen parameters:

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#### SUMMARIES

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Plasmid 244-25.3D	Plasmid 167-72.54G	Human RHAMM bindin	Hyaluronic acid-bi	Cellular response	Hyaluronan recepto	Rat RHAMM binding	Mouse RHAMM bindin	Hyaluronan recepto	Hyalauronan (HA) b	Description

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#### ALIGNMENTS

Hyalauronan (HA) binding peptide #10. 13-AUG-2002 ABG60827; ABG60827 standard; Peptide; 10 AA. (first entry)

RESULT 1
ABG60827
ID ABG6
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DT 13-A
XX T182
KW T182
KW T182
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KW AN12
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KW Ster
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XX S Tissue disorder; response-to-injury process; cell proliferating; hyaluronic acid; HA; receptor for hyalauronan-mediated motility; RHAMM; inflammatory neurological disorder; Parkinson's disease; RHAMM; inflammatory neurological disorder; Parkinson's disease; althritis; multiple sclerosis; gastritis; nephritis; inflammatory dermatosis; psoriasis; inflammatory bowel disease; stenosis; restenosis; cancer; kidney fibrosis; inflammatory lung disease; emphysema; asthma; cystic fibrosis; obesity; obesity related disease; lupus; cardiovascular disease; atherosclerosis; wound; scar; diabetes; lupus; transplantation; stroke; inflammatory response; fibrotic response; distore transplantation; stroke; inflammatory response; fibrotic response; Synthetic septic shock; medical implant; Acquired immunodeficiency syndrome; AIDS; hepatitis, myocardial fibrosis; hepatic fibrosis; chronic cystitis; acute mastit thyroiditis; retinopathy

WO200228415-A1.

11-APR-2002

05-OCT-2000; 2000WO-IB01534.

05-OCT-2000; 2000WO-IB01534

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RESULT 2
AAR46551
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CC with response-to-injury process or proliferating cells in a patient, CC comprising administering a polypeptide (I) which binds hyaluronic acid (HAN), an antibody which binds one of domains DI-D5 of Receptor for CC hyalauronan-mediated motility (RHAMM), a polypeptide fragment encoding CC any of DI-D5 of RHAMM, or a vector which expresses antisense RHAMM, CC antibodies or a polypeptide fragment. The method is useful for treating a CC disease, Alzheimer's disease, arthritis including rheumatorid arthritis, CC disease, Mizheimer's disease, arthritis including rheumatoid arthritis, CC disease, inflammatory lung disease (e.g. emphysema, asthma, cystic Cfibrosis), obesity or obesity related diseases, lupus, cardiovascular CC disease (e.g. atherosis), and wound especially surgical excision CC disease (e.g. atherosiclerosis), and wound especially surgical excision CC disease (e.g. atherosiclerosis), and wound especially surgical excision CC disease (e.g. atherosiclerosis), stroke, inflammatory responses or fibrotic response CC especiated with medical implants such as hip implants, vascular wraps and CC fibrosis, chronic cystitis, acute mastitis, gastritis, mephritis, CC fibrosis, chronic cystitis, scute mastitis, gastritis, mephritis, CC represents a hyslauronan (HA) binding peptide used in the method of CC treating a tissue disorder described in the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                healing; diagnosis; treatment; cell locomotion; tumour invasion; birth defects; inflammatory disorder; Alzheimer's disease; dementia; Parkinson's disease; Huntington's disease; AIDS; diabetes; auto; immune diseases; corneal dysplasia; hypertrophy; surgery; burns; strokes; multiple sclerosis; depression; schizophrenia; CNJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Treating tissue disorder associated with response-to-injury process or proliferating cells in mammals, e.g. fibrosis, inflammation, by administering a compound that alters activity of transition molecules within a cell -
                                        09-APR-1992;
                                                                                                         13-APR-1993;
                                                                                                                                                                                                                                           WO9321312-A.
                                                                                                                                                                                                                                                                                                        contraception;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hyaluronan binding protein; HA; RHAMM; mediated motility; wound;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hyaluronan receptor binding motif (claimed).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-APR-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAR46551;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-435298/46
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                                            92GB-0007949
                                                                                                         93WO-CA00158
                                                                                                                                                                                                                                                                                                        in vitro fertilisation; embryo development.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 46; DB 23
Pred. No. 0.026;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The sequence is that of a binding motif fragment of the hyaluronan receptor (HARC). HARC is down regulated in normal cells and is only expressed in situations where cell motility is desired, e.g. in wound healing, in response to growth factors and in chemotaxis by white blood cells. HA may be used for disposis and treatment of diseases involving cell locomotion, e.g. tumour invasion, birth defects, acute and chronic inflammatory disorders, Alzheimer; s and other forms of dementia, AIDS, diabetes, autoimmune diseases, corneal dysplasias and hypertrophies, burns, surgical incisions and adhesions, strokes, multiple sclerosis, depression/schizophrenia related to neuronal growth and pain states involving nerve sprouting; also in CNJ and spinal cord regeneration, contraception, in vitro fertilisation and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RHAMM; glycosaminoglycan; binding domain; mouse; oncogene; treatment; growth factor; cell locomotion disorder; dementia; detection;
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                                                                                     WPI; 1997-512715/47.
                                                                                                                                      Entwistle J,
                                                                                                                                                                                                                                                                                   10-APR-1996;
                                                                                                                                                                                                                                                                                                                                        10-APR-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hyaluronan receptor:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mouse RHAMM binding domain 2 consensus motif peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAW39164 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        embryo development
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA encoding hyaluronan receptor - used to produce proteins and antibodies for alteration of cell locomotion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1993-351722/44
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disorder; autoimmune disease; diagnosis; prognosis.
                                                                                                                                                                                                    MANITOBA.
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                                                                                                                                    Turley EA
                                                                                                                                                                                                                                                                                   96GB-0007441.
                                                                                                                                                                                                                                                                                                                                           97WO-CA00240
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         receptor for hyaluronic acid mediated motility;
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Pred. No. 0.097;
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Isolated human receptor to develop products for

for hyaluronic acid mediated motility - used treating e.g. tumours, inflammatory

disorders,

dementia, AIDS, diabetes and auto-immune diseases

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 receptor is also known as the receptor for hyaluronic acid mediated motility (RHAMM). Hyaluronan is a large glycosaminoglycan that is ubiquitous in the extracellular matrix and whose synthesis has been linked to cell migration, growth and transformation. It interacts with linked to cell migration.
                                                                                                                          Isolated human receptor for hyaluronic acid mediated motility to develop products for treating e.g. tumours, inflammatory disorders, dementia, AIDS, diabetes and auto-immune diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hyaluronan receptor; receptor for hyaluronic acid mediated motility; RHAMM; glycosaminoglycan; binding domain; rat; oncogene; treatment; growth factor; cell locomotion disorder; dementia; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cell surfaces via specific protein receptors, e.g. RHAMM, that mediate many biological effects. The RHAMM/Hyaluronic acid interaction is
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                                                               Disclosure; Fig 1; 66pp; English.
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   This peptide represents a motif found in a binding domain of rat
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Best Local
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80.0%;
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The sequence is that of a binding motif fragment of the hyaluronan receptor (HARC). HARC is down regulated in normal cells and is on expressed in situations where cell motifilty is desired, e.g. in wound healing, in response to growth factors and in chemotaxis by white blood cells. HA may be used for diagnosis and treatment of

and is only

diseases involving

cell

locomotion, e.g. tumour invasion, birth

DNA encoding hyaluronan receptor - antibodies for alteration of cell ]

Claim 17; Page 57; 88pp;

English.

locomotion

used to produce proteins

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Best Local S
Matches 8
comprising administering a polypeptide (I) which binds hyaluronic acid (HA), an antibody which binds one of domains D1-D5 of Receptor for hyalauronan-mediated motility (RHAMM), a polypeptide fragment encoding apy of D1-D5 of RHAMM, or a vector which expresses antisense RHAMM, antibodies or a polypeptide fragment. The method is "Ref" -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tissue disorder; response-to-injury process; cell proliferating; hyaluronic acid; HA; receptor for hyalaurona-mediated motility; RHAMM; inflammatory neurological disorder; Parkinson's disease; arthritts; multiple sclerosis; gastritts; nephritis; alzheimer's disease; arthritts; multiple sclerosis; gastritts; nephritis; inflammatory dermatosis, psoriasis; inflammatory bowel disease; stenosis; restenosis; cancer; kidney fibrosis; inflammatory lung disease; emphysema; asthma; cystic fibrosis; obesity; obesity related disease; nupus; cardiovascular disease; atherosclerosis; wound; scar; diabetes; tissue transplantation; stroke; inflammatory response; fibrotic response; medical implant; Acquired immunodeficiency syndrome; ALDS; hepatitis; myocardial fibrosis; hepatic fibrosis; chronic cystitis; acute mastitis;
                                                                                                                                                                                                     proliferating administering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                defects, acute and chronic inflammatory disorders, Alzheimer; and other forms of dementia, AIDS, diabetes, acutoimmune diseases, corneal dysplasias and hypertrophies, burneyical incisions and adhesions, strokes, multiple sclerosis, depression/schizophrenia related to neuronal growth and pain states involving nerve sprouting; also in CNJ and spinal cord regeneration, contraception, in vitro fertilisation and
                                                                                                                                                           Disclosure; Page
                                                                                                                                                                                                                                         Treating
                                                                                                                                                                                                                                                                           WPI; 2002-435298/46
                                                                                                                                                                                                                                                                                                       Turley EA, Cruz TF
                                                                                                                                                                                                                                                                                                                                                                       05-OCT-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cellular response to injury associated peptide #4
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                                                                                                                                                                                                                                                                                                                                       TRANSITION THERAPEUTICS & DIAGNOSTICS
                                                                                                                                                                                                      tissue disorder associated with response-to-injury process ating cells in mammals, e.g. fibrosis, inflammation, by ering a compound that alters activity of transition molecule
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  thyroiditis; retinopathy.
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                                                                                                                                                         210; 215pp; English.
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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Best Local
                                                                                                                                                                                                                       Protein conjugates that selectively target certain tissues and organs useful for treating and preventing various diseases, comprises glucose-aminoglycan-targeting domain conjugated to a therapeutic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hyaluronic acid-binding peptide
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Pred. No. 7.8e+05;
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The invention relates to a conjugate comprising an hyaluronic acid binding protein e.g. RHAMM (receptor of HA mediated mobility) or grounting or with, or coupled to a polypoptide conjugated to a therag agent, and the polynucleotides encoding them. Also included is a me

r) or peptide therapeutic

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                                                                                                                                                    Isolated human receptor for hyaluronic acid mediated motility to develop products for treating e.g. tumours, inflammatory disorders, dementia, AIDS, diabetes and auto-immune diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hyaluronan receptor; receptor for hyaluronic acid mediated motility; RHAMM; glycosaminoglycan; binding domain; human; oncogene; treatment; growth factor; cell locomotion disorder; dementia; detection;
                                                                            Claim 7; Fig 1; 66pp; English.
                                                                                                                                                                                                                                                                                                                                   WPI; 1997-512715/47.
                                                                                                                                                                                                                                                                                                                                                                                                           Entwistle J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-APR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-APR-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAW39167;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (MANI-) MANITOBA CANCER TREATMENT & RES FOUND. (UYMA-) UNIV MANITOBA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inflammatory disorder; autoimmune disease; diagnosis; prognosis.
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                                                                                                                                                                                                                                                                                                                                                                                                           Turley EA
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Pred. No. 0.85;
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This peptide represents a motif found in a binding domain of human

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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                        06-SEP-1985;
27-JAN-1986;
17-JUL-1986;
02-SEP-1986;
20-NOV-1986;
27-JUL-1987;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  involved in oncogene-and growth factor-mediated cell locomotion. The products can be used in the treatment of disorders involving cell locomotion, e.g. tumour invasion, birth defects, acute and chronic inflammatory disorders, Alzheimer's and other forms of dementia, including Parkinson's and Huntington's diseases, AIDS, diabetes, autoimmune diseases, corneal dysplasia and hypertrophies, burns, surgical incisions and adhesions, strokes and multiple sclerosis. They can also be used in e.g. CNS and spinal cord regeneration, contraception and in vitro fertilisation and embryo development. The products can also be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linked to cell migration, growth and transformation. It interacts with cell surfaces via specific protein receptors, e.g. RHAMM, that mediate many biological effects. The RHAMM/Hyaluronic acid interaction is
Recombinant bovine rhinotracheitis virus expressing antigenic polypeptide - useful as multivalent vaccine, esp. against parainfluenza or rotavirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAR99730 standard; Peptide; 9 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-APR-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Plasmid 167-72.54G Junction C-encoded peptide.
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                                                                                                                                           WPI; 1996-340868/34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-JUL-1988;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-SEP-1985;
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                                                                                                                                                                                                                                                                                                                17-JUN-1993;
                                                                                                                                                                                                                                                           (PRUT-)
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                                                                                                                                                                                                                                                                                                                                        86US-0902887.
86US-0933107.
87US-0078519.
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                                                                                                                                                                                                                                                           RES
                                                                                                                                                                                                                                                                                                                93US-0078873.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note= "capsid protein C-terminal region'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diagnosis and prognosis.
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60.0%;
                                                                                                                                                                                                                                                           DEV PARTNERSHIP.
                                                                                                                                                                                                   MacDonald RD
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Pred. No.
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Matches
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                                                                                                                                                                                                                                                                      20-NOV-1986;
27-JUL-1987;
17-JUN-1993;
Plasmid 244-25.3D contains an E. coli beta-galactosidase-swine parvovirus A capsid fusion gene as an Xbal fragment in vector pSPr The sequences of the junctions between 3 segments of the fusion gene and the vector are given in AAT13801, AAT13802, AAT31902 and AAT31903. The peptide (AAR99725) encoded by Junction D (AAT31903) comprises the C-terminal region of capsid A. The fusion gene was inserted into the repeat region of PRV, giving recombinant virus
                                                                                                                            Recombinant bovine rhinotracheitis virus expressing antigenic polypeptide - useful as multivalent vaccine, esp. against parainfluenza or rotavirus
                                                                                                      Example
                                                                                                                                                                                                                     Chiang
                                                                                                                                                                                                                                                                                                                                     06-SEP-1985;
27-JAN-1986;
                                                                                                                                                                                                                                                                                                                                                               27-JUL-1988;
                                                                                                                                                                                                                                                                                                                                                                                       06-SEP-1985;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Swine parvovirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pseudorabies virus; PRV; swine parvovirus; herpesvirus; vaccine; capsid; beta-galactosidase; vector; S-PRV-065.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Plasmid 244-25.3D
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAR99725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAR99725 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Plasmid 167-72.54G contains a pseudorabies virus (PRV) gpX secretion signal-swine parvovirus A capsid fusion gene as an XbaI fragment in vector pSP65. The fusion gene was prepd. in 2 segments. The junction (AAT31911) between the segment 2 and the vector includes a region coding for the C-terminal region (AAR89729) of the capsid protein. The fusion gene was inserted into the repeat region of PRV, giving recombinant virus S-PRV-040, which can be used as a vaccine to protect swine against parvovirus infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 28;
                                                                                                                                                                                                                                                                                                             02-SEP-1986;
                                                                                                                                                                                                                                                                                                                          17-JUL-1986;
                                                                                                                                                                                                                                               (PRUT-)
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                                                                                                                                                                                 1996-340868/34.
)B; AAT31903.
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5; Conserv
                                                                                                                                                                                                                                             PRUTECH RES & DEV PARTNERSHIP.
                                                                                                   26; Fig 40B; 114pp; English.
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                                                                                                                                                                                                                    Cochran MD,
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85US-073430

86US-0823102

86US-0887140

86US-0902887

86US-0903107

87US-0078519

93US-0078873.
                                                                                                                                                                                                                                                                                                                                                                                       85US-0773430
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Junction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     54.3%;
71.4%;
                                                                                                                                                                                                                       MacDonald
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               D-encoded peptide
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Pred. No. 7.8e
1; Mismatches
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7.8e+05;
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                                                              pSP65.
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RESULT 12
ABG35074
ID ABG35
XX
AC ABG35
XX

ABG35074 standard;

Peptide;

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ABG35074;

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RESULT 11
AAG95218
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Best Local :
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Best Local
                                                                                 Sequence
                                                                                                                interact with the genome. They can ligands to facili
                                                                                                                                                                                                A set of peptide ligands consisting of specific complementary peptides to proteins encoded by genes of the human genome, useful in an assay for screening and identifying of one or more novel peptides which are drug candidates or pro-drugs -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          S-PRV-065,
                                                                                                      sequence
                                                                                                                                             The invention relates to a set of complementary peptide ligands generated from the human genome. The complementary peptides
                                                                                                                                                                             Example 4; Page 243; 646pp; English.
                                                                                                                                                                                                                                                    WPI; 2001-408419/43
                                                                                                                                                                                                                                                                                                                 13-DEC-1999;
                                                                                                                                                                                                                                                                                                                                     13-DEC-2000; 2000WO-GB04776
                                                                                                                                                                                                                                                                                                                                                                              WO200142277-A2
                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                          Human complementary peptide,
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                                                                                                                                                                                                                                                                                              (PROT-) PROTEOM LTD.
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                   KSQLVK
                                       . Similarity
5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                      complementary
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                              d from the human genome. The complementary peptides with their relevant target proteins encoded in the human They can be used as reagents in drug discovery and as lead to facilitate drug design and development. The present
                                                                                                     is a
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                                                                                                      complementary peptide provided in the specification
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                                                   52.2%;
83.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                      peptide;
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                                        Score 24; DB
Pred. No. 3.7e
1; Mismatches
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                      ligand; drug
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                                                   3.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 17;
7.8e+05;
                                                            DВ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          to protect swine against
                                                            22;
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                                                                                                                                                                                                                                                                                                                                                                                                                      discovery; drug design.
                                                           Length 10;
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                    activities. The methods and composition are useful for identifying targeting peptides and one or more receptors for a targeting peptide. The targeting peptides are used for selective delivery of therapeutic agents, including gene therapy vectors and fusion proteins, to specifi organs, tissues, or cell types in subject. The targeting peptide may also be used for treating diseases such as diabetes mellitus, inflammatory diseases, arthritis, atherosclerosis, cancer, autoimmune diseases, bacterial and viral infections and Hodgkin's disease. The present sequence represents a targeting peptide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention relates to a novel method for identifying disease targeting peptides. The method comprises exposing a sample from an organ, tissue or cell type of interest, to a phage display library and recovering phage bound to the sample (the phage expresses targeting peptides). The peptides identified by the method of the invention may have cytostatic, immunosuppressive, anti-inflammatory, antiarthritic, antiatherosclerotic, antidabetic, antibacterial and antiviral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying targeting peptides useful for treating e.g. diabetes mellitus, inflammatory diseases, cancer, or autoimmune diseases, comparises exposing a sample to a phage display library and recovering phage bound to the sample -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-SEP-2000; 2000US-231266P.
17-JAN-2001; 2001US-0765101.
                                                                                                AAR90268;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-SEP-2001; 2001WO-US27702.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-MAR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   autoimmune disease; bacterial infection; viral infection.
                                 Ion-channel
                                                                10-JUL-1996
                                                                                                                             AAR90268 standard; peptide; 10
                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2002-383050/41.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Targeting peptide; cancer; Hodgkin's disease; cytostatic; immunosuppressive; anti-inflammatory; antiarthritic; antiviral; antiatherosclerotic; antidiabetic; antibacterial; diabetes mellitus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (TEXA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inflammatory disease; arthritis; atherosclerosis; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15-JUL-2002
                                                                                                                                                                                                                                                                           Local Similarity
les 5; Conserv
                                                                                                                                                                                                              3 LVKRK 7
                                                                                                                                                                                                                                           6 LVKRK 10
 channel
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     UNIV TEXAS SYSTEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pasqualini
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                                                                                                                                                                                                                                                                                                                                           9
                              forming
forming peptide; lipophilic; N-terminal modification.
                                                                                                                                                                                                                                                                              Conservative
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                                                                                                                                                                                                                                                                    50.0%; bu
100.0%; Pr
0;
                              peptide #129 with lipophilic N-terminal group.
                                                                entry)
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Pred. No.
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hes 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         These ionophores are known to have a broad range of potent antibiotic activity against microorganisms including gram-positive and gram-negative bacteria, fungi, viruses, protozoa and parasites. N-terminal modification (pref. mono-substr. by octanoy1) to produce an ion-channel forming peptide having a lipophilic N-terminus increases the biological activity of the peptides against target cells, viruses and virally-infected cells, compared to peptides substd. with an acetyl group at the N-terminus. Compositions comprising the peptides with lipophilic modifications are claimed for inhibiting growth of a target cell, virus or virally-infected cell.
                 Sepsis; septic shock; Pseudomonas aeruginosa; cystic fibrosis; antimicorobial; antiviral; antibacterial; attifungal; antitumour; antiparasitic; spermicide; preservative; sterilant; disinfectant; wound healing; burn; skin infection; eye infection; solid tumour; leukaemia; non-small cell lung cancer; adenocarcinoma; plant infection periodontal disease; plaque; gingivitis; caries; Streptococcus mut
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  magainin; inhibition; cell growth; viral replication; ionophore; membrane permeability; antimicrobial; anti-bacterial; antibiotic; anti-fungal; anti-viral; spermicidal; anti-tumour; anti-parasitic.
                                                                                                                                                                                    Peptide used to make biologically active peptides.
                                                                                                                                                                                                                                  11-MAY-1999
                                                                                                                                                                                                                                                                                                                            AAY10768 standard; peptide; 10 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present peptide is a specific example corresp. generic formula for ion channel forming peptides (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antiparasitic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ion channel-forming amphiphilic peptide(s) with N-terminal lipophilic gps. - useful e.g. as antiviral, antibacterial
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4; Conserv
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octanoy1"
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5.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antibacterial,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 10;
                        Streptococcus mutans.
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                                              plant infection;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                         Biologically active peptide; toxicity; antimicrobial; anti-tumour; methane sulphonate derivative; wound healing; burn; therapy; sepsis; eye infection; cyst; spore; trophozoite; tumour; lung infection; cystic fibrosis; septic shock; bacterial endotoxin; cytostatic;
                                                                 Modified-site
                                                                                                                                                           Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                 Biologically active peptide #113.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAE22481 standard; peptide;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 192; 202pp; English.
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                                                                                                                                                                                                                immunosuppressive.
      /note= "Linked to octanoyl group"
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                                                                                             Location/Qualifiers
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Pred. No. 5.7e+02;
3; Mismatches 2;
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Search completed: February
Job time : 36 secs
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                                                                                                                                                                                                         The invention relates to biologically active peptides with reduced CC toxicity and methods of preparing them. The peptides and proteins of the invention have improved antimicrobial and anti-tumour activity convicted while exhibiting reduced toxicity. The method of reducing toxicity involves the formation of related methane sulphonate derivatives or canalogues. The method is useful for reducing the toxicity of an cumbstituted peptide or an N-terminal substituted peptide which is cutilised in promoting or stimulating healing of a wound in a host, cutilised in promoting or stimulating healing of a wound in a host, cutilised in promoting or stimulating healing of eventions caused by bacteria or fungi, in killing cysts, spores, or trophozoites cof infection-causing organisms, and may also be employed in the creatment of tumours, serious lung infections such as those occurring conceptic fibrosis, for treating sepsis, septic shock, and other related ailments, and for neutralising bacterial endotoxins. The gresent sequence is a biologically active peptide of the invention.
                                                                                                                                      Matches
                                                                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-JAN-1994;
01-JUN-1992;
05-JUN-1995;
15-JUL-1997;
                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Reducing toxicity of unsubstituted or N-terminal substituted peptide having antimicrobial and antitumor activity useful in treating e.g. infections and tumor, by forming methane sulfonate derivative or analog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               of peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 1; Column 107-108; 78pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kari UP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MAGA-) MAGAININ PHARM INC
                                                                                                                                                  Local Similarity
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92US-0891201.
95US-0465330.
97US-0893006.
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                 2003, 11:03:09
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                                                                                                                                      Mismatches
                                                                                                                                                                     Length 10;
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Minimum
Maximum
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Maximum Match 100%
Listing first 45 summaries
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'cgn2_6/ptodata/2/pubpaa/US08_FUBCOMB.pep:*

'cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*

/cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*

/cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*

/cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*

/cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*

/cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result

sult No.	Score	Query Match	% Query Match Length	DB	ID	Description
ב	20	43.5	9	و و	US-09-878-603-14	Sequence 14, Appl
2	20	43.5	9	10	US-09-779-308-182	Sequence 182, App
ω	20	43.5	9	10	US-09-779-308-481	481
4.	20	43.5	10	10	US-09-819-308-46	
ហ	20	43.5	10	10	US-09-877-804-22	22,
ტ	19	41.3	7	9	US-10-147-454-6	6, A
7	19	41.3	80	10	US-09-243-079-26	Sequence 26, Appl
8	19	41.3	9	φ	US-09-878-603-20	Sequence 20, Appl
9	19	41.3	9	9	US-09-805-301-1	Sequence 1, Appli
10	19	41.3	10	10	US-09-520-698-1	Sequence 1, Appli
11	19	41.3	10	10	US-09-520-698-5	Sequence 5, Appli
12	19	41.3	10	10	US-09-520-698-6	9
13	19	41.3	10	12	US-10-100-057-15	15,
14	18	39.1	6	10	US-09-867-852-205	205,
15	18	39.1	6	10	US-09-867-852-207	Sequence 207, App
16	18	39.1	7	9	US-09-789-996-42	Sequence 42, Appl
17	18	39.1	7	10	US-09-798-116-19	Sequence 19, Appl
18	18	39.1	80	10	US-09-752-533-2	Sequence 2, Appli
19	18	39.1	y	9	US-09-878-603-21	

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
17	17	17	17	17	17	17	17	17	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	18	18
37.0	37.0		37.0	•	•		•	37.0	•	•	37.0		•	39.1	•		39.1	•	39.1	•	•	•		•	39.1
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9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
US-10-211-207-15	US-10-211-207-1	US-09-178-286-7	US-09-957-909-2	US-09-883-825-2	US-09-243-079-48	US-09-243-079-27	US-09-989-789-222	US-09-989-789-216	US-09-989-789-214	US-09-989-789-213	US-09-989-789-211	US-09-989-789-208	US-09-779-308-63	US-09-752-533-7	US-09-752-533-4	US-09-124-280A-16	US-09-838-785-24	US-09-779-308-211	US-09-905-083-47	US-09-918-243-47	US-09-752-533-3	US-09-834-765-331	US-09-834-765-219	US-09-834-765-18	US-09-765-527-220
-	_	7	N						Sequence 214, App			208,	63	7,	Sequence 4, Appli	e 16	Sequence 24, Appl	e 21	e 47	47	Sequence 3, Appli	33	21		

### ALIGNMENTS

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RESULT 2
US-09-779-308-182
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                                                                                                                                                                                                                                                                                                                                                                       ; TYPE: PRT ; ORGANISM: Homo sapiens US-09-878-603-14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:

APPLICANT: Ward, Peter A.

APPLICANT: Ward, Peter A.

APPLICANT: Huber-Lang, Markus

APPLICANT: Sarma, Vidya

APPLICANT: Czermak, Boris

TITLE OF INVENTION: Compositions and Methods for the Treatment of Sepsis

FILE REFERENCE: UM-03783

CURRENT APPLICATION NUMBER: US/09/878,603

CURRENT FILING DATE: 2001-06-11

PRIOR APPLICATION NUMBER: 09/387,671

PRIOR FILING DATE: 1999-08-31

NUMBER OF SEQ ID NOS: 74
               Sequence 182, Application US/09779308
Patent No. US20020150972A1
GENERAL INFORMATION:
APPLICANT: Mary Faris
APPLICANT: Daniel E.H. Afar
APPLICANT: Pia M. Challita-Eid
APPLICANT: Rene S. Hubert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 14, Application US/09878603
Patent No. US20020165138A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 14
                                                                                                                                                                                                                                                                                                 Matches
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Best Local 9
APPLICANT:
APPLICANT:
APPLICANT:
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                                                                                                                                                                                                                                                                                      Local Similarity 44.4%; hes 4; Conservative
                                                                                                                                                                                                                        Elana Levin
                                                                                                                                                                                                                                                                                              Score 20; DB 9;
Pred. No. 1.1e+05;
2; Mismatches 3
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APPLICANT: Elana Levin
APPLICANT: Steve Chappell Mitchell
APPLICANT: Steve Chappell Mitchell
APPLICANT: Steve Chappell Mitchell
APPLICANT: ANGUAL JABOUTER
TITLE OF INVENTION: 349307: A TISSUE SPECIFIC PROTEIN
TITLE OF INVENTION: HIGHLY EXPRESSED IN PROSTATE CANCER
FILE REFERENCE: 129,4USU1
CURRENT APPLICATION NUMBER: US/09/779,308
CURRENT FILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: 60/181,020
PRIOR APPLICATION NUMBER: 60/181,020
PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 718
SOPTWARE: FABESEQ for Windows Version 4.0
SEQ ID NO 481
LENGTH: 9
TYPE: PRT
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                                                                                                                                                   GENERAL INFORMATION:
APPLICANT: No. US20020019040A1eborn, Mathieu
APPLICANT: Danen-van Oorschot, Astrid
APPLICANT: Rohn, Jennifer
                                                                                                                                                                                                                                                                                                               Sequence 46, Application US/09819308 Patent No. US20020019040A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Mary Faris
APPLICANT: Daniel E.H.
APPLICANT: Pia M. Chal
APPLICANT: Rene S. Hub
APPLICANT: Steve Chapp
APPLICANT: Steve Chapp
APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLIC
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CURRENT APPLICATION NUMBER: US/09/779,308
CURRENT PILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: 60/181,020
PRIOR FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 718
SOPTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 182
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Homo Sapiens - 09-779-308-481
CURRENT APPLICATION NUMBER: US/09/819,308
                                                                     TITLE OF INVENTION: APOPTIN-ASSOCIATING PROTEIN FILE REFERENCE: 2906-4820US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
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ORGANISM: Homo Sapiens
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Local Similarity 44.4%;
nes 4; Conservative
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Pia M. Challita-Eid
Rene S. Hubert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Steve Chappell Mitchell
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Pred. No.
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APPLICANT: Nikolics, Karoly
APPLICANT: McFarland, Reith C.
APPLICANT: Segalo, Deborah L.
APPLICANT: Segalo, Deborah L.
APPLICANT: Seeburg, Peter H.
ITILE OF INVENTION: Glycoprotein Hormone Receptor Molecules
FILE REFERENCE: P0576P102
CURRENT APPLICATION NUMBER: US/09/877,804
CURRENT FILING DATE: 2001-09-04
PRIOR APPLICATION NUMBER: US 08/207,814
PRIOR FILING DATE: 1994-03-07
PRIOR APPLICATION NUMBER: US 07/781,153
PRIOR FILING DATE: 1994-03-07
PRIOR APPLICATION NUMBER: US 07/781,683
PRIOR FILING DATE: 1989-05-05
NUMBER OF SEQ ID NOS: 22
LENGTH: 10
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              APPLICANT: COLOMBO, Irma
APPLICANT: RONCHI, Severino
APPLICANT: BARTORELLI, Alberto
APPLICANT: BUMELIS, Viadas Algirdus
TITLE OF INVENTION: Recombinant Protein and It
FILE REFERENCE: 0471-0273P
CURRENT APPLICATION NUMBER: US/10/147,454
CURRENT FILING DATE: 2002-05-17
NUMBER OF SEQ ID NOS: 9
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US-09-877-804-22
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APPLICANT: NAKTINIS, Vytautas
APPLICANT: COLCAS BENEVELLI, Daniela
APPLICANT: BERRA, Bruno
APPLICANT: COLOMBO, Irma
                                                                                                                                                                                                                                                                             Sequence 6, Application US/10147454 Publication No. US20020193308A1
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Best Local Similarity 37.5%;
Matches 3; Conservative
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Best Local Similarity
Matches 4; Conserv
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NUMBER OF SEQ ID NOS: 46
SOFTWARE PatentIn version 3.0
SEQ ID NO 46
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SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Artificial sequence FEATURE:
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Pred. No. 2.9e+02;
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Pred. No. 2.9e+02
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FILE REFERENCE: 29928-PCT-USA-I
CURRENT ELLING DATE: 1999-02-02
CURRENT FILING DATE: 1999-02-02
PRIOR APPLICATION NUMBER: 08/335,733
PRIOR FILING DATE: 1994-11-10
PRIOR FILING DATE: 1993-05-10
PRIOR FILING DATE: 1993-05-10
PRIOR PILING DATE: 1993-05-11
NUMBER: PCT/IT93/00049
PRIOR APPLICATION NUMBER: RM92A/000350
PRIOR APPLICATION NUMBER: RM92A/000350
PRIOR FILING DATE: 1992-05-11
NUMBER OF SEQ ID NOS: 89
SOPTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 26
LENGTH: 8
TYPE: PRT
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; Sequence 26, Application US/09243079

; Patent No. US20020081566A1
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Best Local S
Matches 4
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                SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 20
LENGTH: 9
TYPE: PRT
                                                                                                                                                                                                                                                                                                          Sequence 20, Application U. Patent No. US20020165138A1 GENERAL INFORMATION:
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APPLICANT: Sarma, Vidya
APPLICANT: Czermat
                                                                                      CURRENT FILING DATE: 2001-06-11
PRIOR APPLICATION NUMBER: 09/387,671
PRIOR FILING DATE: 1999-08-31
NUMBER OF SEQ ID NOS: 74
                                                                                                                                                     APPLICANT: Czermak, Boris
TITLE OF INVENTION: Compositions and Methods for the Treatment of Sepsis
FILE REFERENCE: UM-03783
CURRENT APPLICATION NUMBER: US/09/878,603
CURRENT FILING DATE: 2001-06-11
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TITLE OF INVENTION: HOWOLOGOUS TO HLA
TITLE OF INVENTION: HOWOLOGOUS TO HLA
FILE REFERENCE: 29928-PCT-USA-I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Human Immunodeficiency Virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
ORGANISM: Artificial Sequence
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Local Similarity 66.7%;
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Pred. No. 1.1e+05;
2; Mismatches 2
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Pred. No. 1.1e+05;
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                                                                Matches
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                                                                              Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                           TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 6.0
SOFTWARE: WORD PERFECT 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/805,301
FILING DATE: 12-Mar-2001
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: 08/584,043
FILING DATE: CUNKNOWN>
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION UNMBER: 32,327
REFERENCE/DOCKET NUMBER: 217/189
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity tes 4; Conserv
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                              1 KLKSQLVK 8
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MEDIUM TYPE: 3.5" Diskette,
                                                                                                                                           TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
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KLRKRLLR 9
                                                              3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
                                                                                                                                                                                        STRANDEDNESS: single
                                                                                                                                                                                                              TYPE: amino acid
                                                                                                                                                                                                                                                                                                          TELEPHONE:
                                                                Conservative
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                                                                              41.3%;
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                                                             Score 19; DB 9;
Pred. No. 1.1e+05;
4; Mismatches 1
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Pred. No. 1.1e+05;
2; Mismatches :
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US-09-520-698-6
Sequence 6, Application US/09520698
Patent No. US20020128175A1
GENERAL INFORMATION:
APPLICANT: Gattadahalli M. Anantharamaiah
TITLE P.F. INVENTION: Synthetic Peptides that Enhance LDL Uptake
FILE REFERENCE: D6084
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Patent No. US20020128175A1
GENERAL INFORMATION:
APPLICANT: Gattadahalli M. Anantharamaiah
TITLE OF INVENTION: Synthetic Peptides that Enhance LDL Uptake
FILE REFERENCE: D6084
CURRENT FILING DATE: 1999-03-17
PRIOR APPLICATION NUMBER: 09/271,066
PRIOR APPLICATION NUMBER: 09/271,066
PRIOR PILING DATE: 1998-03-17
NUMBER OF SEQ ID NOS: 10
                                                                                                                                                                                                                                                                             Query Match
Best Local (
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Gattadahalli M. Anantharamaiah
TITLE OF INVENTION: Synthetic Peptides that Enhance LDL Uptake
FILE REFERENCE: D6084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/520,698
CURRENT FILING DATE: 1999-03-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 09/271,066
PRIOR FILING DATE: 1998-03-17
                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PI
                                                                                                                                                                                                                                                                                                                                        NAME/KEY: DOMAIN
LOCATION: 134..143
OTHER INFORMATION: rabbit apolipoprotein E receptor binding domain
                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Lepus sp.
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LOCATION: 111..150
OTHER INFORMATION: minimal arginine-rich human apolipoprotein
OTHER INFORMATION: receptor binding domain
                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
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les 3; Conserv
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Pred. No. 4.4e+02;
4; Mismatches 1
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Pred. No.
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MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal
SEQUENCE DESCRIPTION: SEQ
US-10-100-057-15
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US-10-100-057-15
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, NAME/KEY: DOMAIN
; LOCATION: 141..150
; OTHER INFORMATION: monkey apolipoprotein E receptor binding domain
US-09-520-698-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15, Application US/10100057
Patent No. US20020150555A1
GENERAL INFORMATION:
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Best Local Similarity
Matches 3; Conserv
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CURRENT FILING DATE: 1999-03-17
PRIOR APPLICATION NUMBER: 09/271,066
PRIOR FILING DATE: 1998-03-17
NUMBER OF SEQ ID NOS: 10
                                                                                                                                                    TELEPHONE: (202) 628-5197
TELEPAX: (202) 737-5528
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                COMPUTER: IBM PC COMPATIBLE

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: RC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/100,057

FILING DATE: 19-Max-2002

PRIOR APPLICATION NUMBER: US/09/030,061

FILING DATE: 25-FEB-1998

APPLICATION NUMBER: JP 55,468/1997

FILING DATE: 25-FEB-1997

FILING DATE: 25-FEB-1997

ATTORNEY/AGENT INFORMATION:

NAME: BROWDY, ROGET L.

REGISTRATION UMBER: 25,618

REFERENCE/DOCKET NUMBER: GILLISPIE-1

TELEDHONE: 1020,708-5107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3 KLRKRLLR 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SECULIARY AND NEIMARK ADDRESSEE: BROWDY AND NEIMARK ADDRESSEE: A19 Seventh Street, N.W., Suite 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KURIMOTO, MASASHI
TITLE OF INVENTION: OSTEOCLASTGENIC INHIBITORY AGENT
NUMBER OF SEQUENCES: 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: GILLISPIE, Matthew Todd
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                                                                                        TOPOLOGY: linear
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ZIP: 20004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STATE: D.C
                                                                                                          TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM TYPE: Floppy disk
                                                                                                                                  LENGTH: 10 amino acids
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UDAGAWA, No. US20020150555Aluyuki
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Pred. No. 4.4e+02;
                        iragment ID NO: 15:
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Query Match

41.3%;

Score 19;

DB 12;

Length 10;

66.7%;

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US-09-867-852-205
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SOPTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 205
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 207, Application US/09867852
Patent No. US20020147324A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 39.1
Best Local Similarity 100.
Matches 4; Conservative
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Matches 4; Conservative
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APPLICANT:
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APPLICANT:
APPLICANT:
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APPLICANT: YU, GUO-LÍANG
TITLE OF INVENTION: RPS2 GENE FAMILY, PRIMERS, PROBES, AND
TITLE OF INVENTION: DETECTION METHODS
FILE REFERENCE: 00786/254002
CURRENT APPLICATION NUMBER: US/09/867,852
CURRENT FILING DATE: 2001-05-29
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/301,085
PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-28
PRIOR FILING DATE: EARLIER FILING DATE: 1994-09-22
PRIOR PRIOR PRIOR NUMBER: EARLIER APPLICATION NUMBER: 08/327,360
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/227,360
PRIOR FILING DATE: EARLIER FILING DATE: 1994-04-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT FILING DATE: 2001-05-29
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/301,085
PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-28
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/310,912
PRIOR FILING DATE: EARLIER FILING DATE: 1994-09-22
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/227,360
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/227,360
PRIOR DATE: EARLIER FILING DATE: 1994-04-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: RPS2 GENE FAMILY, PRIMERS, PROBES,
TITLE OF INVENTION: DETECTION METHODS
FILE REFERENCE: 00786/254002
CURRENT APPLICATION NUMBER: US/09/867,852
CURRENT FILING DATE: 2001-05-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Ausubel, Frederick M.
APPLICANT: Staskawicz, Brian J.
APPLICANT: Brent, Andrew F.
APPLICANT: Dahlbeck, Douglas
APPLICANT: Katagiri, Fumiaki
APPLICANT: Kunkel, Barbara N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 6
TYPE: PRT
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Dahlbeck, Douglas
                                                                                                                                                                                                                                                                                                                                                                                    Ausubel, Frederick M. Staskawicz, Brian J. Brent, Andrew F.
                                                                                                                                                                                                                                                                                         Kunkel, Barbara N.
Mindrinos, Michael N.
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                                                                                                                                                                                                                                                                                                                                          Katagiri, Fumiaki
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100.0%; Pred. No. 1.1e+05;
tive 0; Mismatches 0;
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2; Mismatches 0;
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; NUMBER OF SEQ ID NOS: 208
; SCPTWARE: PRAESEQ for Windows Version 4.0
; SEQ ID NO 207
; LENGTH: 6
; TYPE: PRT
; ORGANIZM: Arabidopsis thaliana
US-09-867-852-207
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                       Ś
                                               Query Match
Best Local Similarity
Matches 4; Conserv
                       1 KLKS 4
                                                     Conservative
                                                              39.1%; Score 18;
100.0%; Pred. No.
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Search completed: February Job time : 12 secs

8, 2003, 11:07:43

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Minimum
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Perfect score:
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seq length: 10
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46
             4569144 seqs, 644733110 residues
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/ Cgm2_6/ptodata/1/paa/US06_COMB.pep:*
/ Cgm2_6/ptodata/1/paa/US06_COMB.pep:*
/ Cgm2_6/ptodata/1/paa/US06_COMB.pep:*
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/ Cgm2_6/ptodata/1/paa/US081_COMB.pep:*
/ Cgm2_6/ptodata/1/paa/US082_COMB.pep:*
/ Cgm2_6/ptodata/1/paa/US083_COMB.pep:*
/ Cgm2_6/ptodata/1/paa/US083_COMB.pep:*
/ Cgm2_6/ptodata/1/paa/US083_COMB.pep:*
/ Cgm2_6/ptodata/1/paa/US086_COMB.pep:*
/ Cgm2_6/ptodata/1/paa/US086_COMB.pep:*
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Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Patents AA Main:*
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c 45 summaries
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

6	υī	4	ω	2	_	Result No.
43	43	43	46	46	46	Score
93.5	93.5	93.5	100.0	100.0	100.0	Tuery Query Match Length DB ID
10	10	10	10	10	10	Length
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US-09-424-292-6	US-09-169-077-2	US-08-318-892B-4	US-09-978-309A-31	US-09-685-010-31	US-08-318-892-4	ID
Sequence 6, Appli	Sequence 2, Appli	Sequence 4, Appli	Sequence 31, Appl	Sequence 31, Appl	Sequence 4, Appli	Description

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	80	7
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equence 9609,	e 3563,	Φ	e 134,	equence 1984,	Sequence 50, Appl	ce 2	6, 2	e 12	equence 129, P	202,	equence	e 17,	61	Sequence 1412, Ap	658	e 29	equence 14,	14,	equence 7,	equence 33,	equence 25,	e 34,	12,	12,	æ	11,	equence 11,	equence 32,	equence 30,	equence 23,	equence 13,	quence 13,	equence 59,	ce 59,	32,	æ	equence 28,	Sequence 15, Appl

# ALIGNMENTS

US-08-318-892-4

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Sequence 4, Application US/08318892
GENERAL INFORMATION:
APPLICANT: TULLEY, EVA A
TITLE OF INVENTION: HYALLURONAN RECEPTOR (RHAMM = RECEPTOR
TITLE OF INVENTION: HOR HYALLURONAN MEDIATED MOBILITY) AND HYALLURONAN BINDING
TITLE OF INVENTION: POR HYALLURONAN MEDIATED MOBILITY) AND HYALLURONAN BINDING
TITLE OF INVENTION: PEPTIDES
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSE: c/o FISH & NEAVE
STREET: 1251 Avenue of the Americas
CITY: New York
STATE: N.Y.
COUNTRY: USA
ZIP: 10020
COMPUTER READABLE FORM:
MEDIUM TYPE: Flopy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/318,892
FILING DATE: 1-DEC-1994
CLASSIFICATION STATEN: 1-SOC-1994
CLASSIFICATION NUMBER: 30,709
REFERENCE/DOCKET NUMBER: 30,709
REFERENCE/DOCKET NUMBER: SIM-8
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TELEPHONE: (212) 596-9000

(212)

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US-09-978-309A-31
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US-09-685-010-31
                 FILE REFERENCE: 033352-010
CURRENT APPLICATION NUMBER: US/09/978,309A
CURRENT FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: US 09/685,010
PRIOR FILING DATE: 2000-10-05
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR FILING DATE: 2000-04-03
PRIOR FILING DATE: 1999-04-01
PRIOR FILING DATE: 1999-04-01
NUMBER OF SEQ ID NOS: 84
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SOFTWARE: FREESEQ for Windows Version 4.0
SEQ ID NO 31

LENGTH: 10

TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
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                                                                                                                                                                                                          APPLICANT: Cruz, Tony
APPLICANT: Pastrak, Aleksandra
APPLICANT: Turley, Eva A.
TITLE OF INVENTION: Compositions and Methods for Treating Cellular Response to
TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders Regulated by
TITLE OF INVENTION: Hyaladherin and Hyaluronans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Turley, Eva A.
APPLICANT: Cruz, Tony F.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
TITLE OF INVENTION: CELLULAR RESPONSE TO INJURY AND OTHER PROLIFERATING CELL
TITLE OF INVENTION: DISORDERS REGULATED BY HYALADHERIN AND HYALIURONANS
FILE REPERENCE: 910130.401C1
CURRENT APPLICATION UMBER: US/09/685,010
CURRENT FILING DATE: 2001-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
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Local Similarity 100.0%;
les 10; Conservative 0
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TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 KLKSQLVKRK 10
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FastSEQ for Windows Version 4.0
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linear
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ID NO: 4:
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Pred. No. 0.1
0; Mismatches
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RESULT 5
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                                                                                                                                                                                                                        US-08-318-892B-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-318-892B-4
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Sequence 2, Applicati GENERAL INFORMATION:
                                                                                                                                                          Best Loc
Matches
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LENGTH: 10
                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/318,892B
FILING DATE: 1-DEC-1994
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Pierri, Margaret A
                                                                                                                                                                                         Query Match
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Best Local Similarity
Matches 10; Conserv
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INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
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                                                                                                                                                                                                                                      MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: SI
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Turley, Eva A TITLE OF INVENTION: HYALL TITLE OF INVENTION: HYALL NUMBER OF SEQUENCES: 41
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                                                                                                                                                          Local Similarity hes 9; Conserv
                                                                                                                                                                                                                                                  STRANDEDNESS: SIR
                                                                                                                                                                                                                                                                                  TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Pierri, Margaret A
REGISTRATION NUMBER: 30709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: New York STATE: N.Y.
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                 Application US/09169077
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1251 Avenue of the Americas
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; Pred. No. 0.42
1; Mismatches
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Pred. No. 0.11;
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APPLICANT: TITLE OF INVENTION: NUMBER OF SEQUENCES:

HUMAN HYALURONAN RECEPTOR 52

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NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn version 3.1
SEQ ID NO 6
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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              Sequence 15, Application US/09424292
GENERAL INFORMATION:
APPLICANT: Turley, Eva A
TITLE OF INVENTION: Improved Delivery of Disease Modifiers
FILE REFERENCE: 205375
CURRENT APPLICATION UNMER: US/09/424,292
CURRENT FILING DATE: 2000-07-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 6, Application US/09424292 GENERAL INFORMATION:
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CURRENT APPLICATION NUMBER: US/09/424,292
CURRENT FILING DATE: 2000-07-06
PRIOR APPLICATION NUMBER: PCT/CA98/00448
PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: CA 2,205,771
PRIOR FILING DATE: 1997-05-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: GB 9607441.4
PILING DATE: 10-APR-1996
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
PRIOR APPLICATION NUMBER: PCT/CA98/00448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Turley, Eva A
TITLE OF INVENTION: Improved Delivery of Disease Modifiers
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TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
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Pred. No. 0.42;
1; Mismatches
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Pred. No. 0.42;
1; Mismatches
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Query Match
Best Local Similarity
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PRIOR APPLICATION NUMBER: CA 2,205,771
PRIOR FILING DATE: 1997-05-22
NUMBER OF SEQ ID NOS: 36
SOFTWARE: Patentin version 3.1
SEQ ID NO 15
                                                                                                                                                                                                                                                     Sequence 8, Application US/09169077 GENERAL INFORMATION:
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CURRENT FILING DATE: 2000-07-06
PRIOR APPLICATION NUMBER: PCT/CA98/00448
PRIOR FILING DATE: 1998-05-11
PRIOR PELICATION NUMBER: CA 2,205,771
PRIOR FILING DATE: 1997-05-22
NUMBER OF SEQ ID NOS: 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Turley, Eva A
TITLE OF INVENTION: Improved Delivery of Disease Modifiers
FILE REFERENCE: 205375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: PatentIn version 3.1
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TYPE: PRT
ORGANISM: Artificial Sequence
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OTHER INFORMATION: Synthetic
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                                                                              TITLE OF INVENTION: HUMAN HYALURONAN RECEPTOR
NUMBER OF SEQUENCES: 52
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,077
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                            FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: '
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 APPLICATION NUMBER:
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GB 9607441.4
                                WO PCT/CA97/00240

    Mismatches

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Pred. No.
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Pred. No. 0.42;
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RESULT 11
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Sequence 59, Application US/09685010 GENERAL INFORMATION: APPLICANT: Turley, Eva A.
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GENERAL INFORMATION:
APPLICANT: Turley, Eva A
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Best Local !
                                                                                                                                                                                         Matches
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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NAME: Pierri, Margaret A
REGISTRATION NUMBER: 30709
REFERENCE/DOCKET NUMBER: SIM-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9000
TELEPAX: (212) 596-9090
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INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acids
TYPE: amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
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TITLE OF INVENTION: HYALURONAN RECEPTOR (RHAMM = RECEPTOR FOR
TITLE OF INVENTION: HYALURONAN MEDIATED MOBILITY) AND HYALURONAN BINDING PEPTIDES
NUMBER OF SEQUENCES: 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/318,892B
FILING DATE: 1.DEC-1994
CLASSIFICATION: 536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                        MOLECULE TYPE:
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STATE: N.Y.
COUNTRY
                                                                                                                                                                                                                                                                                       TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: linear
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88.9%;
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Pred. No.
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Pred. No. 4.2e+06;
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US-08-318-892-13; Sequence 13, Application US/08318892; GENERAL INFORMATION:
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US-09-978-309A-59
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TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
TITLE OF INVENTION: CELLULAR RESPONSE TO INJURY AND OTHER PROLIFERATING
TITLE OF INVENTION: DISORDERS REGULATED BY HYALADHERIN AND HYALURONANS
FILE REFERENCE: 910130.401C1
CURRENT APPLICATION NUMBER: US/09/685,010
CURRENT APPLICATION NUMBER: US/09/685,010
CURRENT FILING DATE: 2001-05-23
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FRASUSEQ for Windows Version 4.0
SEQ ID NO 59
LENGTH: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 59
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Best Local Similarity
Matches 8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Pastrak, Aleksandra
APPLICANT: Turley, Eva A.
APPLICANT: Turley, Eva A.
TITLE OF INVENTION: Compositions and Methods for Treating Cellular Response to
TITLE OF INVENTION: Injury and Other Proliferating Cell Disorders Regulated by
TITLE OF INVENTION: Hyaladherin and Hyaluronans
TILE REFERENCE: 03352-010
CURRENT REPLICATION NUMBER: US/09/978,309A
CURRENT FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: US 09/685,010
PRIOR PILING DATE: 2000-10-05
PRIOR PILING DATE: 2000-10-05
PRIOR APPLICATION NUMBER: US 09/541,522
PRIOR APPLICATION NUMBER: US 09/541,522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR FILING DATE: 2000-04-03
PRIOR APPLICATION NUMBER: US 60/127,457
PRIOR FILING DATE: 1999-04-01
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APPLICANT: Pastr
APPLICANT: Turle
                                                         APPLICANT: Turley, Eva A TITLE OF INVENTION: HYALUT TITLE OF INVENTION: FOR HY TITLE OF INVENTION: PEPTID NUMBER OF SEQUENCES: 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 9
TYPE: PRT
ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH:
                                          CORRESPONDENCE ADDRESS
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nes 8; Conserv
    STREET:
ADDRESSEE: c/o FISH & NEAVE
STREET: 1251 Avenue of the Americas
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                                                              HYALURONAN RECEPTOR (RHAMM = RECEPTOR FOR HYALURONAN MEDIATED MOBILITY) AND HYALURONAN BINDING PEPTIDES
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                                                                                                                                                                                                                                                                                                                                                                                                             82.6%;
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Pred. No. 4.2e+06;
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Pred. No. 4.2e+06;
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New York

COMPUTER READABLE FORM: MEDIUM TYPE: Floppy

Floppy disk

STATE: N

USA

10020 N.Y.

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; LENGTH: 10 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-318-892-13
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                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Pierri, Margaret A
REGISTRATION NUMBER: 30709
REFERENCE/DOCKET NUMBER: SIM-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9900
INFORMATION FOR SEQ ID NO: 13:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:

NAME: Pierri, Margaret A
REGISTRATION NUMBER: 30,709
REFERENCE/DOCKET NUMBER: SIM-8
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9000
TELEFAX: (212) 596-9090
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 13, Application US/08318892B
GENERAL INFORMATION:
APPLICANT: Turley, Eva A
TITLE OF INVENTION: HYALURONAN RECEPTOR (RHAMM = RECEPTOR FOR
TITLE OF INVENTION: HYALURONAN MEDIATED MOBILITY) AND HYALURONAN BINDING PEPTIDES
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OPERATING SYSTEM: PC-DOS/MS-
SOFTWARE: WORDERFECT 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/3
FILING DATE: 1-DEC-1994
CLASSIFICATION: 536
              SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compati
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                              APPLICATION NUMBER: US/
FILING DATE: 1-DEC-1994
CLASSIFICATION: 536
                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: 1251 Av CITY: New York STATE: N.Y.
STRANDEDNESS:
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1251 Avenue of the Americas
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SYSTEM: PC-DOS/MS-DOS
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Search completed: February Job time : 134 secs

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                                                                                                                                US-09-424-292-23
                                                                                                                                                                                                                                                                                         Sequence 23, Application US/09424292
GENERAL INFORMATION:
APPLICANT: Turley, Eva A
TITLE OF INVENTION: Improved Delivery of Disease Modifiers
FILE REFERENCE: 205375
CURRENT APPLICATION NUMBER: US/09/424,292
CURRENT FILING DATE: 2000-07-08
PRIOR APPLICATION NUMBER: PCT/CA98/00448
PRIOR APPLICATION NUMBER: CA 2,205,771
PRIOR APPLICATION NUMBER: CA 2,205,771
                                                                                                                                                                                                                          PRIOR FILING DATE: 1997-05-22
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn version 3.1
SEQ ID NO 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 82.6%;
Best Local Similarity 88.9%;
Matches 8; Conservative
                                                                  Matches
                                                                                                Query Match
                                                                                                                                                             TYPE: PRT ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                OTHER INFORMATION: Synthetic
                                                                                                                                                                                                               LENGTH: 10
                                                                Local Similarity hes 8; Conserv
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nilarity 88.9%;
Conservative
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Pred. No. 3.7;
1; Mismatches
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Perfect score:
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      protein search, using
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| length: 10
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(c) 1993 - 2003 Compugen Ltd
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22553, Ap
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24854, A
18049, A
18049, A
18049, A
24864, Ap
910109, A
214592, A
214592, A
214592, A
214592, A
216492, A
21649, A
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Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
24493, A	24299, A	13498, A	11535, A	10125, A	9374, Ap	4924, Ap	2181, Ap	2125, Ap	697, App	<ol> <li>Appli</li> </ol>	41648, A	39620, A	34284, A	31258, A	26800, A	26751, A	24553, A	24492, A

#### ALIGNMENTS

US-09-641-528-2553

Sequence 2553, Application GENERAL INFORMATION

Application US/09641528

APPLICANT: Sette, Alessandro
APPLICANT: Sidney, John
APPLICANT: Southwood, Scott
APPLICANT: Chesnut, Robert

Slawy, Southwood, Scott Somut, Robert

RESULT 1

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US-09-641-528-24854
; Sequence 24854, Application US/09641528
; GENERAL INFORMATION:
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Sidney, John
; APPLICANT: Chesnut, Robert
; APPLICANT: Cels, Esteban
; APPLICANT: Cels, Esteban
; APPLICANT: Grey, Howard
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2553
                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
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CURRENT FILING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR FILING DATE: 1999-12-10
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TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS FILE REFERENCE: 2060.0100001
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Grey, Howard
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Pred. No. 3.3e
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Sequence

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US-09-641-528A-24854
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                                                                                                           GENERAL INFORMATION:
APPLICANT: Sette, Alessandro
APPLICANT: Sidney, John
APPLICANT: Southwood, Scott
APPLICANT: Chesnut, Robert
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CURRENT APPLICATION NUMBER: US/09/641,528A
CURRENT FILING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR FILING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 51504
SOFTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 2553
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Matches
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Best Local
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 24854
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TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS TITUS OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS FILE-REFERENCE: 2060.0100001
CURRENT APPLICATION NUMBER: US/09/641,528A
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PRIOR FILING DATE: 1999-12-10
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ORGANISM: Artificial Sequence
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Celis, Esteban
Grey, Howard
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Sidney, John
Sidney, John
Scott
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Celis, Esteban
Grey, Howard
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Pred. No.
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APPLICANT: Grey, Howard
TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS
TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
FILE REFERENCE: 2060.0100001
CURRENT FILING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR FILING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 18049
LENGTH: 10
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Best Local
APPLICANT: Sette, Alessandro
APPLICANT: Sottey, John
APPLICANT: Sidney, John
APPLICANT: Southwood, Scott
APPLICANT: Southwood, Scott
APPLICANT: Chesnut, Robert
APPLICANT: Celfs, Esteban
APPLICANT: Grey, Howard
TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS
TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
FILE REFERENCE: 2060.0100001
CURRENT APPLICATION NUMBER: US/09/641,528
CURRENT FILING DATE: 2000-08-15
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APPLICANT:
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Best Local :
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PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR FILING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
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TYPE: PRT
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OTHER INFORMATION: Peptide Derived
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Pred. No.
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Pred. No. 3.3e+05;
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PRIOR PILLING DATE: 1999-12-10;
PRIOR PILLING DATE: 1999-12-10;
NUMBER OF SEQ ID NOS: 51504;
SOFTWARE: FASTSEQ for Windows Version 4.0;
SEQ ID NO 18049;
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
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US-09-641-528A-18049
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APPLICANT: Celis, Esteban
APPLICANT: Grey, Howard
TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS
TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
FILE REFERENCE: 2060.0100001
CURRENT APPLICATION NUMBER: US/09/641,528A
CURRENT FILING DATE: 2000-08-15
                          APPLICANT: Chesnut, Robert
APPLICANT: Celis, Esteban
APPLICANT: Grey, Howard
TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS
TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
FILE REFERENCE: 2060.0100001
CURRENT APPLICATION NUMBER: US/09/641,528A
CURRENT FILING DATE: 2000-08-15
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APPLICATION NUMBER: US 60/172,705
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Pred. No. 72;
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Query Match
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APPLICANT: Sidney, John
APPLICANT: Southwood, Scott
APPLICANT: Chesnut, Robert
APPLICANT: Celis, Esteban
APPLICANT: Grey, Howard
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SOPTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2124
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NUMBER OF SEQ ID NOS: 51504
SOFTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 24855
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TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS FILE REFERENCE: 2060.010001
CURRENT APPLICATION NUMBER: US/09/641,528
CURRENT FILING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR APPLICATION NUMBER: US 60/172,705
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APPLICANT: Sidney, John
APPLICANT: Southwood, Scott
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ORGANISM: Artificial Sequence
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ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Peptide Derived from Human Papillomavirus
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Best Local
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APPLICANT:
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                      TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS FILE REFERENCE: 2060.010001
CURRENT APPLICATION NUMBER: US/09/641,528
CURRENT FILING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR APPLICATION NUMBER: US 60/172,705
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CURRENT APPLICATION NUMBER: US/09/641,528
CURRENT FILING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
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SOPTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 4864
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NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
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SEQ ID NOS: 51504
                                                                                                                                               : Southwood, Scott
: Chesnut, Robert
: Celis, Esteban
: Grey, Howard
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Celis, Esteban
Grey, Howard
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 22; DB 5;
Pred. No. 3.3e+05;
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3.3e+05;
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RESULT 14
US-09-641-528-24492
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US-09-641-528-11706
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                                                                                                                                                                                                                                                                                                               Sequence 24492, Application US/09641528 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 11706
LENGTH: 8
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APPLICANT: Southwood, Scott
APPLICANT: Chesnut, Robert
APPLICANT: Celis, Esteban
APPLICANT: Celis, Esteban
APPLICANT: Grey, Howard
TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS
FILE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
FILE REFERENCE: 2060.0100001
CURRENT APPLICATION NUMBER: US/09/641,528
CURRENT FILING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US 60/172,705
PRIOR PILING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS FILE REFERENCE: 2060.0100001 CURRENT APPLICATION NUMBER: US/09/641,528 CURRENT FILING DATE: 2000-08-15 PRIOR APPLICATION NUMBER: US 60/172,705 PRIOR PILING DATE: 1999-12-10
                                                                                                                                                                                                                                                                     APPLICANT: Sette, Alessandro APPLICANT: Sidney, John
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Sette, Alessandro
APPLICANT: Sidney, John
APPLICANT: Southwood, Scott
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE: OTHER INFORMATION: Peptide Derived
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Grey, Howard
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Chesnut, Robert
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66.7%;
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Pred. No.
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Pred. No. 3.3e+05;
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Sequence 2453, Application US/09641528
GENERAL INFORMATION:
APPLICANT: Sette, Alessandro
APPLICANT: Sidney, John
APPLICANT: Sidney, John
APPLICANT: Southwood, Scott
APPLICANT: Celis, Esteban
APPLICANT: Celis, Esteban
APPLICANT: Celis, Esteban
APPLICANT: Celis, Esteban
APPLICANT: Celis, Esteban
APPLICANT: Celis, USING FEBTIDE AND NUCLEIC ACID COMPOSITIONS
TITLE OF INVENTION: USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
CURRENT FILLING DATE: 2060.0100001
CURRENT FILLING DATE: 2000-08-15
PRIOR APPLICATION NUMBER: US/09/641,528
CURRENT FILLING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 51504
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 24553
LENGTH: B
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
FEATURE:
FEATURE:
FORTH INFORMATION: Peptide Derived from Human Papillomavirus
US-09-641-528-24553
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US-09-641-528-24553
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; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Peptide Derived from Human Papillomavirus
US-09-641-528-24492
Search completed: February 8, 2003, 11:07:26 Job time : 19 secs
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Best Local Similarity 66.7
Matches 4; Conservative
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Best Local Similarity 66.7
Matches 4; Conservative
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1 QVLKRK 6
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Pred. No. 3.3e+05;
2; Mismatches 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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46
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Issued_Patents_AA:*

1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*

2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*

3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*

4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*

5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*
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Gapop 10.0 , Gapext 0.5
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Copyright (c) 1993 - 2003 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	00	7	9	ທ	4.	ω	N	1	No.	Result	
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Sequence 5, Appli	e 60,	e 44,	е 5	(P (5	e 9,	e 9,	9	4.	4	4, A	494	nce 3,	•	51	51,		51,	2,	e 29,	e 29,	e 50,	æ	e 50,	e 50, 1	e 129,	Sequence 129, App	Description		

20 43.5 10 5 PCT-US95-12509-9 19 41.3 5 6 1187078-16 19 41.3 6 1 US-08-815-688A-6 19 41.3 7 2 US-08-680-236-92 19 41.3 8 1 US-08-178-476A-6 19 41.3 8 1 US-08-178-476A-6 19 41.3 9 1 US-08-335-733D-26 19 41.3 9 1 US-08-38-634-29 19 41.3 9 1 US-08-38-634-29 19 41.3 9 1 US-08-48-67-083-12 19 41.3 9 1 US-08-48-63-48A-12 19 41.3 9 2 US-08-48-348A-12 19 41.3 9 2 US-08-48-545B-12 19 41.3 9 2 US-08-159-339A-273 19 41.3 9 3 US-08-159-339A-273 19 41.3 9 3 US-08-159-339A-273 19 41.3 9 3 US-08-159-339A-273 19 41.3 9 3 US-08-16-600B-12 19 41.3 10 2 US-08-584-640-60 19 41.3 10 2 US-08-744-640-60
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ECT-US95-12509-9 5187078-16 US-08-815-688A-6 US-08-680-326-92 US-08-18-476A-6 US-08-335-733D-26 US-08-335-733D-26 US-08-335-733D-26 US-08-345-36-6 US-08-467-083-12 US-08-467-083-12 US-08-468-545B-12 US-08-468-545B-12 US-08-159-339A-273 US-08-159-339A-273 US-08-159-339A-273 US-08-166-680B-12 US-08-466-680B-12 US-08-466-680B-12 US-08-764-640-60 US-09-174-060-19

## ALIGNMENTS

TELEPHONE: (202) 408-4400  TELEPAX: (202) 408-4400  INFORMATION FOR SEQ ID NO: 129: SEQUENCE CHARACTERISTICS: LENGTH: 10 amino acids TYPE: amino acid STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: peptide US-08-465-325-129	FILING DATE: 05-JUN-1995  CLASSIFICATION: 514  PRIOR APPLICATION DATA: APPLICATION UMBER: 08/184,462  FILING DATE: 18-JAN-94  PRIOR APPLICATION DATA: APPLICATION UMBER: 07/891,201  FILING DATE: 01-JUN-92  ATTORNEY/AGENT INFORMATION: NAME: FORGISTRATION THEORMATION: REGISTRATION MUMBER: 05387.0021-03000  TELECOMMUNICATION INFORMATION:	N.W. Suite 700 ble ble yMS-DOS se #1.0, Version #1. 8/465,325	129 , Application US/08465325 688563 688563 : Magainin Pharmaceuticals Inc. : 5110 Campus Drive : 5110 Campus Drive : Plymouth Meeting, PA 19462 INVENTION: Biologically Active Pep INVENTION: N-Terminal Substitution SEQUENCES: 153 DENCE ADDRESS: EE: Finnegan, Henderson, Farabow, EE: Dunner
	-03000		nc. 2 2 tutions abow, Garrett &

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RESULT 3
US_08-666-564-50
; Sequence 50, Application US/08666564
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Best Local Similarity
"---hes 4; Conserva
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; SEQUENCE DESCRIPTION: SEQ ID NO: 129:
US-09-115-737-129
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US-09-115-737-129
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Best Local Similarity 44.4
Conservative
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                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (202) 408-441
INFORMATION FOR SEQ ID NO: 129:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 08/465,330
FILING DATE: 05-JUN-1995
APPLICATION NUMBER: 08/184,462
FILING DATE: 18-JAN-94
APPLICATION NUMBER: 07/891,201
FILING DATE: 01-JUN-92
ATTORNEY/AGENT INFORMATION:
NAME: FORGLE, 01-JUN-92
ATTORNEY/AGENT INFORMATION:
NAME: FORGLE, 020,000
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                     1 KLKSQLVKR 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/09/115,737
PILING DATE: 15-Uul-1998
CLASSIFEICATION: cUnknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0, Version #1.3
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: Biologically Active Peptides With Reduced
Toxicity in Animals and a Method for Preparing Same
NUMBER OF SEQUENCES: 156
                                                                                                   KLKKKFLKK 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE
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                                                                                                                                                                                                                                                                                                                      TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Dunner, L.L.P.
STREET: 1300 I Street, N.W. Suite 700
                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (202) 408-4000
                                                                                                                                                                                                                                                                                                                                                            ENGTH: 10 amino acids
                                                                                                                                                                             Conservative
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Michael McLane
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Pred. No. 2.1e+02;
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                                                                                                                                                                       Score 23; DB 4; Length 10;
Pred. No. 2.1e+02;
3; Mismatches 2; Indels
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTMARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/666,564
FILING DATE: 14-JUN-1996
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/12245
APPLICATION NUMBER: PCT/US93/12245
APPLICATION NUMBER: PCT/US93/12245
APPLICATION NUMBER: 33,928
REGISTRATION NUMBER: 33,928
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: UTSN:016
TBLECOMMUNICATION INFORMATION:
TELEPHONE: $12/418-3000
                                                                                                                                                                                                                                                                                                             Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
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APPLICANT: Miller, Edmuna ...
APPLICANT: Kurdowska, Anna
APPLICANT: Hayashi, Shinichiro
APPLICANT: Tuttle, Ronald R.
APPLICANT: TUTSHIRD: PEPTIDE INHIBITORS OF CXC INTERCRINE
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
                                                                                                                                                                                                                                APPLICANT: Miller, Edmund J.
APPLICANT: Hayashi, Shinichiro
TITLE OF INVENTION: PEFTIDE TUMOR CELL GROWTH INHIBITORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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ADDRESSEE: Arnold, White & Durkee STREET: P.O. Box 4433
                                                                                                                                                                                                                NUMBER OF SEQUENCES:
                                                                           COUNTRY: US
                                                                                                                   STREET: P.O. B
CITY: Houston
STATE: Texas
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STREET: P.O. B
CITY: Houston
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ZIP: 77210
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                                                                                                                                                                                                                                                                                                                 6110889
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50.0%;
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Pred. No. 3.1e+02;
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RESULT 5
US-09-650-438-50
; Sequence 50, Application US/09650438
; Patent No. 6355619
; GENERAL INFORMATION:
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                                                                                         TELECOMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEPAS: 512/474-7577
INFORMATION FOR SEQ ID NO: 50:
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PRIOR APPLICATION DATA:
US 08/666,564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US 08/
FILING DATE: 14-JUN-1996
ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: UTSN:020
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: PatentIn Release #1.0, Version #1.30
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                                                                                                                                                                    APPLICATION NUMBER: 08/865,472
FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: UTSN:020
                                                                                                                                                                                                                                                                                     SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/650,438
FILING DATE: 29-Aug-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Miller, Edmund J.
Hayashi, Shinichiro
TITLE OF INVENTION: PEPTIDE TUMOR CELL GROWTH INHIBITORS
                                                                          SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4
                TYPE: amino acid
STRANDEDNESS: <Unknown>
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                                                    LENGTH: 10 amino acids
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OPOLOGY: linear
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50.0%;
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Pred. No. 3.1e+02;
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PCT-US93-12245-50
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                                                                                                                          US-08-459-064B-29
                                                                                                                                                            RESULT 7
Sequence 29, Application US/08459064B Patent No. 5747452.
GENERAL INFORMATION:
APPLICANT: RUOSLAHTI, ERKKI I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 50, Application PC/TUS9312245 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (713) 789-26
TELEX: 79-0924
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/12245
FILING DATE: Concurrently herewith
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: UT TELECOMMUNICATION INFORMATION: TELEPHONE: (512) 320-7200 TELEPHAX: (713) 789-2679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
NAME: KITCHELL, Barbara S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P. O. Box 4433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: peptide
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tes 4; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: P. O. CITY: Houston
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 77210
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TUTTLE, Ronald R.
TUTTLE, PEPTIDE INHIBITORS OF CXC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KURDOWSKA, Anna
HAYASHI, Shinichiro
                                                                                                                                                                                                                                                                                                                                                                                    47.8%;
llarity 50.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COHEN, Allen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     single
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Edmund J.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          58
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                                                                                                                                                                                                                                                                                                                                                                                    Score 22; DB Pred. No. 3.1e 3; Mismatches
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Pred. No. 3
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                                                                                                                                                                                                                                                                                                                                                                                                                        3.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 5;
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Best Local Similarity 71.4%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                          Sequence 29, Application US/08460421A Patent No. 5837813
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -08-459-064B-29
                                                                                                                                                                                                                                                                                                         Patent No. 5837813
GENERAL INFORMATION:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/829,462
FILING DATE: 31-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/021,626
FILING DATE: 16-FEB-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/340,812
PRIOR APPLICATION NUMBER: US 08/340,812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: 619-535-8949 INFORMATION FOR SEQ ID NO:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                      TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: 1: MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                  APPLICANT: RUOSLAI APPLICANT: MORLA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION: TELEPHONE: 619-535-9001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/459,064B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 17-NOV-1994
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: CAMPBELL, CATHRYN A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LA 1543
                                                                                                                       STREET: 4370 LA CITY: SAN DIEGO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 01-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: SAN DIEGO
                                                                                                                                                                 ADDRESSEE:
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                                                                              OUNTRY:
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                                                                                                     CALIFORNIA
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                                                                                                                                          B: CAMPBELL & FLORES LLP
4370 LA JOLLA VILLAGE DRIVE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             E: CAMPBELL & FLORES LLP
4370 LA JOLLA VILLAGE DRIVE,
                                                                                    UNITED STATES
                                                                                                                                                                                                                                                                                     RUOSLAHTI, ERKKI I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           protein
                                                                                                                                                                                                                                                                  ALEX
                                                                                                                                                                                                    PIBRONECTIN BINDING SITES AND METHODS OF MODULATING FIBRONECTIN EXTRACELLULAR MATRIX ASSEMBLY 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A METHOD OF MODULATING TUMOR CELL MIGRATION USING FIBRONECTIN TYPE III PEPTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 21; DB 1; Length 9; Pred. No. 2e+05; 0; Mismatches 2; Indels
                                                                                                                                              STE 700
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Matches
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Patent No. 5840295
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 07/829,462
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/021,626
FILING DATE: 16-FEB-1993
PRIOR APPLICATION UNMBER: US 08/340,812
APPLICATION NUMBER: US 08/340,812
FILING DATE: 17-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: CAMPBELL, CATHRYN A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LA 1542
                                                                                                                                                                                                       ZIP: 60606-0110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
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                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 06
PILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: Enzymatically-Produced Dimeric IL-2 and A TITLE OF INVENTION: Nerve-Derived Transglutaminase Enzyme for Its Preparation NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear MOLECULE TYPE: protein
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SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,421A
FILING DATE: 01-JUN-1995
               APPLICATION NUMBER: US 07/840,783
FILING DATE: 24-FEB-1992
PRIOR APPLICATION DATA:
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                                                                                                                                                  APPLICATION NUMBER: US/08/467,202 FILING DATE: 07-JUN-1995 CLASSIFICATION: 435
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APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE:
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XGY: linear
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P.O. Box 06110
                                                                                                                                                                                                                                                                                                                                              USA
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                                                                                                                US 08/099,759
 US 07/573,580
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Pred. No. 2e+05;
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 30-JUL-

30-JUL-1992

IL 102686

DATE:

27-AUG-1990

PRIOR APPLICATION DATA:
APPLICATION NUMBER:

IL 103469

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Patent No. 5965536
GENERAL INFORMATION:
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/666,564
FILING DATE: 14-JUN-1996
CLASSIFICATION 530
PRIOR APPLICATION NUMBER: PCT/US93/12245
APPLICATION NUMBER: PCT/US93/12245
APPLICATION NUMBER: PCT/US93/12245
APPLICATION NUMBER: DCT/US93/12245
APPLICATION NUMBER: DCT/US93/12245
REFIERENCE/DOCKET NUMBER: 33,928
REFERENCE/DOCKET NUMBER: USIN: 016
TELEPHONE: 512/418-3000
TELEPHONE: 512/418-3000
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TELEFAX: (202) 789-1158
INFORMATION FOR SEQ ID NO: 2:
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APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Kurdowska, Anna
APPLICANT: Hayashi, Shinichiro
APPLICANT: Tuttle, Ronald R.
TITLE OF INVENTION: PEPTIDE INHIBITORS OF CXC INTERCRINE
TITLE OF INVENTION: MOLECULES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: WATEON T. SCOTT
REGISTRATION NUMBER: 26,581
REFERENCE/DOCKET NUMBER: 47
TELECOMMUNICATION INFORMATION:
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APPLICATION NUMBER: IL 1
FILING DATE: 19-MAY-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
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STREET: P.O. B
CITY: Houston
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TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                        COUNTRY: US
ZIP: 77210
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Local Similarity 57.1%;
les 4; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                E: Arnold, White & Durkee P.O. Box 4433
                                                                                                                                                                                                                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Miller, Edmund J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
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Pred. No. 4.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1; Indels
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                                                               Best Loc
Matches
                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PAtentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/865,472
FILING DATE: CONCURRENTLY HEREWITH
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/666,564
FILING DATE: 14-UN-1996
ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: UTSN:020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 3; Conserv
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GENERAL INFORMATION:
                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 51, Application US/08865472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                            TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Miller, Edmund J.
APPLICANT: Hayashi, Shinichiro
TITLE OF INVENTION: PEPTIDE TUMOR CELL GROWTH INHIBITORS
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION:
                                                             Local Similarity
                                                                                                                                             STRANDEDNESS:
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANDEDNESS:
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1 ELRMQMIK
                            1 KLKSQLVK 8
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                                                                            45.7%;
37.5%;
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37.5%;
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                                                             Score 21; DB
Pred. No. 4.7e
4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 21; DB 2; Pred. No. 4.7e+02; 4; Mismatches 1
                                                                                            Length 10;
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                                                             Gaps
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                                                             0
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US-09-650-438-51 ; Sequence 51, Application US/09650438 ; Patent No. 6355619

RESULT 12

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                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE: 512/418-3000
TELEPAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 51:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                      APPLICANT: COHEN, Allen B.
APPLICANT: MILLER, Edmund J.
APPLICANT: KURDOWSKA, Anna
APPLICANT: HAYASHI, Shinichiro
APPLICANT: TUTTLE, Ronald R.
TITLE OF INVENTION: PEPTIDE INHIBITORS OF CXC
TITLE OF INVENTION: INTERCRINE MOLECULES
                                                                                                                                                                                                    NUMBER OF SEQUENCES: 5
                                                                                                                      STREET: ...
STREET: ...
TTY: Houston
Taxas
                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/650,438

FILING DATE: 29-Aug-2000

CLASSIFICATION: CURROWN>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
nes 3; Conserv
                                                                                                COUNTRY:
                                                                                                                                                                                 ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 KLKSQLVK 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 ELRMOMIK 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO: 51:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: UTSN:020
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 08/865,472 FILING DATE: <Unknown> ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Miller, Edmund J.
TITLE OF INVENTION: PEPTIDE TUMOR CELL GROWTH INHIBITORS
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arrold, White & Durkee
STREET: P.O. Box 4433
                                                                                                    Texas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE: Texas
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                                                                                                                                                                                                                                                                                                                                                                                                                        Application PC/TUS9312245
                                                                                                                                                             E: Arnold, White & Durkee P. O. Box 4433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
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Pred. No. 4.7e+02;
4; Mismatches 1; Indels
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5314565

; PARTELCANT: SCHWARTZ, MICHAEL; EITAN, SHOSHANA
; APPLICANT: SCHWARTZ, MICHAEL; EITAN, SHOSHANA
; TITLE OF INVENTION: ENZYMATICALLY-PRODUCED DIMERIC IL-2
;AND A MERVE-DERIVED TRANSGLUTAMINASE ENZYME FOR ITS PREPARATION
NUMBER OF SEQUENCES: 10
CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/99,759
; APPLICATION NUMBER: 30-UUL-1993
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA:
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                                                 Sequence 3, Application US/08672610A
Patent No. 5846933
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Korngold, Robert
TITLE OF INVENTION: CD4-DERIVED PEPTIDES THAT INHIBIT IMMUNE
TITLE OF INVENTION: RESPONSES
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO:10:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 3; Conserv
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: KITCHELL, Barbara S.
REGISTRATION UNWBER: 33,928
REFERENCE/DOCKET NUMBER: UTFN
TELEPHONE: (512) 320-7200
TELEPAX: (713) 789-2679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:
APPLICATION NUMBER: PC:
FILING DATE: Concurrent
CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity hes 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 840,783
FILING DATE: 24-FEB-1992
APPLICATION NUMBER: 573,580
FILING DATE: 27-AUG-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 10 amino acids
TYPE: amino acid
TYPE: smino acid
STRANGEDNESS: single
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                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                    2 SKLTKKK 8
                                                                                                                                                                                                                                                                                                                                                           4 SQLVKRK 10
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    New York
                    B: PENNIE & EDMONDS
1155 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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Length 10;

0;

Gaps

0

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Score 21; DB 5;
Pred. No. 4.7e+02;
Mismatches
                  Length 10
0,
Gaps
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